

# भारत का राजपत्र The Gazette of India

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No. 26] NEW DELHI, SATURDAY, JUNE 28, 1980 (ASADHA 7, 1902)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 28th June 1980

#### CORRIGENDUM

In the Gazette of India, Part III, Section 2, dated 17-5-1980 under the heading "PATENTS SEALED" read 146519 instead of 146579.

(2)

In the Gazette of India, Part III, Section 2 dated 6-10-79 in page 588, Column 2 under the heading "PATENTS SEALED" delete number 145884.

#### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

22nd May, 1980

- 598/Cal/80. Zahnradfabrik Friedrichshafen Aktiengesellschaft. Operating Mechanism.  
599/Cal/80. Mobil Oil Corporation. Process for isomerising xylenes.  
600/Cal/80. Amsted Industries Incorporated. Truck for railroad cars.  
601/Cal/80. L. Teske. Arm-type feeder wheel for unloading solids from a bin.  
602/Cal/80. Ciba-Geigy A.G. Process for protecting organic or in-organic materials against attack from micro-organisms. [Divisional date March 22, 1978].

1—127GI/80

- 603/Cal/80. A. T. Skylarov, (2) V. P. Archakov, (3) V. I. Eberil, (4) V. I. Kubasov, (5) I. V. Borinevich, (6) A. I. Marchenkova, (7) V. S. Sitarov, (8) V. I. Fisin, (9) N. F. Mokhov and (10) L. Y. Tsybin. Electrode for electrochemical processes and process for producing same.

23rd May, 1980

- 604/Cal/80. Montedison S.p.A. Process for preparing vinyl acetate/vinyl alcohol copolymers.  
605/Cal/80. Institute PO Metaloznaniye I Tekhnologiya NA Metalite. A method for plastic processing of materials.  
606/Cal/80. Siemens Aktiengesellschaft. High-voltage electrical switch.  
607/Cal/80. Buckman Laboratories Inc. Water-soluble mixtures of quaternary ammonium polymers, nonionic and/or cationic vinyl addition polymers, and nonionic and/or cationic surfactants.

24th May, 1980

- 608/Cal/80. Societa Italiana Telecomunicazioni Siemens s.p.a. A circuit arrangement capable of compensating the frequency variations, as a function of the temperature variations of a quartz oscillator.  
609/Cal/80. Kabel-Und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method and apparatus for continuously stranding electrical cable cores. [Addition to No. 907/Cal/78].  
610/Cal/80. Lucas Industries Limited. Ignition coil. (May 25, 1979).

(333)

611/Cal/80. Lucas Industries Limited. Starter motor. (May 25, 1979).

612/Cal/80. Lucas Industries Limited. Method of making a lamp assembly. (May 25, 1979).

26th May, 1980

613/Cal/80. Sm. Misti Guha. Improved tubewell filters.

614/Cal/80. Beth GmbH. Multiport disk valve, especially for dust-removal duct systems.

615/Cal/80. Beth GmbH. Filter cleaning device.

616/Cal/80. Bateman Equipment Limited. Belt filters.

617/Cal/80. Bateman Equipment Limited. Belt filters.

618/Cal/80. Siemens Aktiengesellschaft. Vacuum switches.

27th May, 1980

619/Cal/80. Stamicarbon B. V. Method for the preparation of a pure alkali metal benzoate by the side of benzyl alcohol.

620/Cal/80. N. G. W. Persson. Cargo pallet.

621/Cal/80. M. A. N. Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft. Fuel injection method for direct-injection compression ignition and spark-ignition internal combustion engines.

622/Cal/80. Buckman Laboratories, Inc. Oil recovery using a dimethylamide in a fluid carrier.

623/Cal/80. Siemens Aktiengesellschaft. Data transfer apparatus for typewriter, teleprinter or data printer.

624/Cal/80. Siemens Aktiengesellschaft. Methods and apparatus for adjusting the position of printing on a data carrier of a printing machine.

625/Cal/80. Siemens Aktiengesellschaft. Apparatus for converting keyboard symbols.

28th May, 1980

626/Cal/80. Flowcon OY. A binder (cement) and process for producing the binder (cement) to be used in slurry, mortar, or concrete having a low water-to-cement ratio.

627/Cal/80. Biuro Projektow Pizemyslu Metali Niezelaznych "Binromet". Electric installation for heating of molten metals and/or salts and solutions.

628/Cal/80. Montedison S.p.A. Process for extracting vinyl chloride monomer from polyvinyl chloride latexes and equipment for realizing same.

629/Cal/80. Aktieselskabet De Danske Sukkerfabrikker. Liquid fuel composition, method of preparing said composition and emulsifier.

630/Cal/80. Siemens Aktiengesellschaft. A process for load current evaluation in a direct current reversal controller, and a direct current reversal controller for the execution of the process.

631/Cal/80. Ludwig Tanrogge Reinigungsanlagen Fur Rohren-Warmeaustauscher. A device for separating solids from a liquid stream.

632/Cal/80. Ludwig Tanrogge Reinigungsanlagen Fur Rohren-Warmeaustauscher. A device for separating solids from a liquid stream.

#### APPLICATIONS FOR PATENTS AT THE

(DELHI BRANCH)

8th April, 1980

255/DEL/80. Swbn Electrical Industries, "Indicator."

256/DEL/80. The Regents of the University of California Berkeley, "(Alkoxy carbonyl) (Alkyl) Aminosulfonyl Derivatives of Phosphoramidothioate Esters."

257/DEL/80. Chloride Silent Power Limited, "Glass Seals for Sealing Beta-Alumina in Electro-Chemical Cells or other Energy Conversion Devices, Glasses for use in such Seals and Cells or other Energy Conversion Devices with such Seals." (April 19, 1979).

9th April, 1980

258/DEL/80. Delle-Alsthom, "A Sealing arrangement for an Assembly of Components in a High-Ten Circuit Breaker."

259/DEL/80. Claude Catelas, "A Detachable Paper-Clip of the "Trombone" Type and a Paper-Clip Distributor."

260/DEL/80. Mallinckrodt, INC., "Method for Preparing p-Aminophenol."

10th April, 1980

261/DEL/80. Hindustan Insecticides Ltd., "An Improved Method for the Hydrolysis of Hindered Benzylic Chlorine Atom."

262/DEL/80. Sidelal S.A., "Water-Cooled Cover for Industrial Furnaces."

263/DEL/80. Council of Scientific & Industrial Research, "A Domestic Stove."

264/DEL/80. Council of Scientific & Industrial Research, "Continuous Wire Plating Unit."

265/DEL/80. Council of Scientific & Industrial Research. "Improvements in or relating to the use of Alternating Current in Electrochemical Graining and Anodising of Aluminium and its Alloys."

266/DEL/80. Pritpal Singh Sawhney, "Precast Decorative Plaster Elements."

11th April, 1980

267/DEL/80. Societe De Paris Et Du Rhone, "Voltage Regulator with a Load Signal Lamp, for an Automotive Vehicle Alternator."

268/DEL/80. Gopi Krishan Kabra, "A Lighting Means."

269/DEL/80. Ravinder Singh, "An Irrigation Sprinkler." [Divl. date January 12, 1979].

270/DEL/80. Ravinder Singh, "An Irrigation Sprinkler." [Divl. date January 12, 1979].

271/DEL/80. Gopi Krishan Kabra, "A Lighting Appliance."

14th April, 1980

272/DEL/80. Hindustan Insecticides Ltd., "An Improved Catalyst for belongation of activated Benzylic and Sterically Hindered Double Bonds."

273/DEL/80. Mahinder Narain, "An improved Wide Spaced Flat File and Expandable Flat File."

15th April, 1980

274/DEL/80. Scaipa-Porritt Limited, "Conveying and Like Structures." (April 21, 1979 and May 5, 1979).

16th April, 1980

275/DEL/80. Council of Scientific & Industrial Research, "(Personal Clean Air Device)—for providing clean air to workers (working at polluted atmosphere) to breathe in."

17th April, 1980

276/DEL/80. C. Kapoor, "Scale tightening system in Mini Drafter."

277/DEL/80. Major T.A. Ramakrishnan, "A Wind Energy Converter."

278/DEL/80. Stainco Enterprises Private Ltd., "An Evaporator."

18th April, 1980

- 279/DEL/80. Bayer Aktiengesellschaft, "Process for the Preparation of Pyrene Compounds."

19th April, 1980

- 280/DEL/80. Council of Scientific & Industrial Research, "Improvements in or relating to the Electrolytic Reduction of o-Nitroanisole to o-Anisidine."  
 281/DEL/80. Council of Scientific & Industrial Research, "Improvements in or relating to Flow Brightening of Tin."  
 282/DEL/80. Council of Scientific & Industrial Research, "Improved Process for the preparation of Fat Liquors for use in Leather Industry."

21st April, 1980

- 283/DEL/80. Sir Padampat Research Centre, "Process for the production of flat coloured Polyamide Yarns and their use in Textiles."  
 284/DEL/80. Naresh Chandra Vashistha, "A Yarn Winding Machine."  
 285/DEL/80. The General Electric Company Limited, "Carrier-Domain Magnetometers. (May 4th 1979).  
 286/DEL/80. USS Engineers and Consultants, INC., "Seal for Railroad Car Hopper Doors, and Method and Apparatus for forming a Sealing Strip."  
 287/DEL/80. Edward Alvin Gastrock, "Apparatus for Interconnecting Tanks Employed in an In-Line Liquid Process." [Divl. date Dec., 24, 1976].

22nd April, 1980

- 288/DEL/80. Arbed S.A., "A Process for Refining a Metal Bath by a Stream of Oxygen supplied there-over."  
 289/DEL/80. Societe D'Etudes De Produits Chimiques, Preparation Process of New Halogeno Derivatives of Isopropylamino Pyrimidine." (May 15th 1979).  
 290/DEL/80. Pfizer INC., "Bis-Esters of Methanediol with Penicillines and PENICILLANIC Acid 1, 1-Dioxide..  
 291/DEL/80. Council of Scientific & Industrial Research, "A Process for the Production of Collagen Sheet Material from Mammalian Tissues."

#### APPLICATIONS FOR PATENTS FILED AT THE (MADRAS BRANCH)

13th May 1980

- 88/Mas/80. V. V. T. Thirupathy. Underground drainage cleaning line of scrubbers attached to oneway-foldable chain of T headed flats.

15th May 1980

- 89/Mas/80. S. A. R. Navakodi. Tone-arm guiding mechanism.  
 90/Mas/80. S. A. R. Navakodi. Indicator with locking mechanism.  
 91/Mas/80. S. A. R. Navakodi. Petrol tank outlet lock.  
 92/Mas/80. S. A. R. Navakodi. Toys run by attachable and detachable mini motors and power pack.

17th May 1980

- 93/Mas/80. M. Verghese. Improved new fuel oil burner.

21st May 1980

- 94/Mas/Mas. Lucas Industries Limited. Improvements relating to automatic adjusters to drums brakes. (May 21, 1979)

- 95/Mas/80. Lucas Industries Limited. Improvements relating to automatic adjusters for drum brakes. (May 21, 1979)

- 96/Mas/80. R. Srinivasan. STD deprecator.

#### ALTERATION OF DATE

147792. Ante-dated 20th March, 1978.  
 01/Cal/80.  
 147793. Ante-dated 20th March, 1978.  
 02/Cal/80.  
 147794. Ante-dated 20th March, 1978.  
 03/Cal/80.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the application concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 172E.

147767

Int. Cl.-B65h 54/02.

APPARATUS FOR WINDING A THREAD DELIVERED AT A CONSTANT SPEED.

*Applicant* : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBERT-STRASSE 84, 8070 INGOLSTADT, WEST GERMANY.

*Inventors* : KARL- HEINZ LEHMANN AND PETER ARTZT.

Application No. 1074/Cal/77 filed July 12, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

Apparatus for winding a thread, delivered at constant speed, onto a bobbin, with an arcuate thread guide member, characterised in that the arcuate thread guide member is mounted on its holder by means of springs or resilient means so that it can yield resiliently transversely of the direction of travel of the thread.

Comp. Specn. 13 Pages.

Drg. 2 Sheets.

CLASS 195B &amp; C.

147768

Int. Cl.-F16k 11/14.

SHUT-OFF VALVE.

*Applicant & Inventor* : UUNO JOHANNES LEHTINEN, 33940 PIRKKALA 40, FINLAND.

Application No. 1393/Cal/77 filed September 12, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

Shut-off valve comprising a valve body provide with at least two passage ports, and a shut-off member for the passage ports with an operating shaft rotatably carried in the valve body, said shut-off member being connected with an arcuate member which is braced against a staying member on the bottom of the valve body and is elastic, in such manner that the shut-off member is shiftable from one passage port to another by turning the operating shaft the shut-off member being pressed against the inner surface of the valve body, radially urged by the arcuate member, characterized in that the valve comprised an adjustable tensioning means, against which the arcuate member is braced and by adjustment of which the pressure of the shut-off member against the inner surface of the valve body is adjustable with change of the curvature of the arcuate member.

Comp. Specn. 9 pages.

Drg. 3 Sheets.

CLASS 58-I.

147769.

Int. Cl.-F24j 3/02.

IMPROVEMENTS IN OR RELATING TO SOLAR ENERGY ABSORBERS.

*Applicant* : BRITISH INDUSTRIAL PLASTICS LIMITED, OF 20 ST. MARY'S PARSONAGE MANCHESTER M3 2NL, ENGLAND.

*Inventor* : DENNIS HENRY OGDEN.

Application No. 96/Del/78 filed February 6, 1978.

Convention date February 18, 1977/(06871/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

23 Claims.

Apparatus for the absorption of solar energy comprising an absorber plate of substantially uniform thickness whose energy receiving surface is matt black, and, backing the absorber plate, a plurality of troughs closed by the plate to form channels for the passage of cooling fluid, the surface area of the absorber plate open to direct contact by cooling fluid being at least 40% of the surface of the plate adjacent the troughs.

Comp. Specn. 10 Pages.

Drg. 2 Sheets.

CLASS 49E. & F.

14770.

Int. Cl.-A47j 27/026.

A DEVICE FOR COOKING FOOD IN AN ECONOMIC WAY.

*Applicant & Inventor* : ANITA GULATI, OF FLAT NO. 5, BLOCK NO. 10, RAILWAY COLONY, GARDEN REACH, CALCUTTA-700043.

Application No. 1521/Cal/77 filed October 17, 1977.

Complete Specification left June 2, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A cooking device comprising substantially a part which is double-walled with annular space in between and is of rectangular, dome, cylindrical, spherical, prismatic and like shapes having an outlet in outer wall for discharge of hot gases and also having a double-walled shuttered opening on one of the sides, a substantially flat base part with the opening in the centre for inlet of heating medium, the said double-walled part when placed on the base part form a cooking chamber in such a way that heating medium from a source of heat enter into the cooking chamber via the base part and go out to the atmosphere after passing through the annular space of the double-walled part.

Prov. Specn. 2 Pages. Comp. Specn. 4 Pages. Drg. 1 Sheet. CLASS 180.

147771.

Int. Cl.-F24c 5/00.

A WICKLESS KEROSENE STOVE.

*Applicant & Inventor* : MOHAMMAD SULEMAN, PROPRIETOR OF THE BEST TIN & STEEL INDUSTRIES, 6889, GALI MIAN SAHEB WALI, BERIWALLA BAGH, PUL BANGASH, DELHI-6, INDIA.

Application No. 416/Del/78 filed June 5, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

An improved wickless stove working on kerosene oil characterised in that a device is fitted on the oil tank through which a regulated supply of oil passes to the burner; the said device comprising a valve cap attachment which carries a vertical hollow nozzle fixed inside the oil tank; the said nozzle having a central hole at the bottom with two sides holes; the said nozzle also having provision of an inner spring operated pin such that the upper end of the pin is connected to the valve cap attachment fitted over the top of the nozzle and further that a U shaped pipe tubing is provide at the bottom of the stove, one end of which is fixed below the bottom hole of the said nozzle and the other end is connected to the burner and the whole arrangement is such that the supply of oil to the burner through the nozzle is fully regulated by the operation of the said valve cap attachment.

Comp. Specn. 4 Pages.

Drg. 1 Sheet.

CLASS 69J & M.

147772.

Int. Cl.-H01h 3/00.

ELECTRICAL SWITCH.

*Applicant* : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM, B19 2XF, ENGLAND.

*Inventor* : DEREK THORNLEY.

Application No. 1445/Cal/77 filed September 26, 1977.

Convention date October 5, 1976/(41226/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

An electrical switch including a fixed contact, a movable contact movable into and out of engagement with the fixed contact and resiliently biased out of engagement with said fixed contact, a rotatable operating member, a cam rotatable with the operating member and co-operating with the movable contact to move the movable contact relative to the fixed contact, and electromagnetic means for moving the cam in the direction of its rotational axis relative to the movable contact, said operating member and said cam being rotatable in one direction from a rest position, wherein the movable contact is in its rest position spaced from the fixed contact, to an operative position wherein the movable contact is engaged with the fixed contact, and the cam and the operating member being rotatable in the reverse direction from said operative position back to said rest position to permit disengagement of the movable contact from the fixed contact, and said cam being movable axially in at least said operative position by said electromagnetic means, without reverse rotation of the operating member to permit the movable contact to return to its rest position, said cam carrying first and second cam forms each of which is capable upon rotation, of the cam of moving the movable contact into engagement with the fixed contact, said second cam form commencing adjacent the termination of the first cam form and the co-operation of the cam and the movable contact being such that after movement of the movable contact by the first cam form to engage the fixed contact, and subsequent return of the movable contact to its rest position by axial movement of the cam, further rotation of the operating member and the cam in said one direction results in the movable contact co-operating with the second cam form so that the movable contact can again be moved to engage the fixed contact by rotation of the operating member in said one direction, the cam and the operating member in effect being rotated beyond

said operative position to achieve the co-operation between the movable contact and the second cam form.

Comp. Specn. 23 Pages.

Drg. 4 Sheets.

CLASS 151E.

147773.

Int. Cl.-F16I 21/02.

#### PIPE JOINTS.

*Applicant* : UNITED STATES PIPE AND FOUNDRY COMPANY, STATE OF DELAWARE, OF 3300 FIRST AVENUE, NORTH, BIRMINGHAM, ALABAMA, UNITED STATES OF AMERICA.

*Inventor* : ROBERT MALCOLM GRAHAM.

Application No. 1655/Cal/77 filed November 28, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A pipe joint including an inner pipe with a plain end telescoped into the open end of an outer pipe, said plain end having an outside sealing wall, said outer pipe having an axially elongated groove extending radially around its inside surface near said open end, said axially elongated groove having gasket retaining means, a gasket sealing wall and an integral compression rib located between a forward gasket sealing wall and a rear gasket sealing wall, said rib protruding radially inwardly into said axially elongated groove, and a resilient gasket disposed in said elongated groove and having a retaining portion and a sealing portion, said sealing portion of said resilient gasket being radially compressed between said compression rib and said outside sealing wall of said inner pipe.

Comp. Specn. 11 Pages.

Drg. 2 Sheets.

CLASS 80-I.

147774.

Int. Cl.-B01d 25/02.

#### A STACKABLE FILTER HEAD UNIT AND A FILTER ASSEMBLY.

*Applicant* : MASSEY-FERGUSON SERVICES N.V., ANTILLES ABRAHAM DE VEERS TRAAAT 7A CURA-CAO, NETHERLANDS ANTILLES.

*Inventors* : LEE EUGENE ELFES AND DALE ALAN WOOD.

Application No. 986/Cal/77 filed June 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A stackable filter head unit for a filter assembly comprising one or more filter elements, filter bowls and filter head units, each filter head unit comprising a member having first and second opposed generally planar end surfaces inter-connectable with corresponding surfaces of like filter head units to permit stacking of the filter head units, side surface means adapted to receive one end each of a filter element and a filter bowl in generally concentric fluid tight relationships, generally parallel inlet and outlet passageways lying in a plane generally parallel to the side surface means, the inlet and outlet passageways extending between the first and second end surfaces, a first port extending between the outlet passageway and the side surface means to place the outlet passageway in communication with a chamber within the filter element, and a second port extending between the inlet passageway and the side surface means to place the inlet passageway in communication with a chamber surrounding the filter element.

Comp. Specn. 11 Pages.

Drg. 3 Sheets.

CLASS 63-I.

147775.

Int. Cl.-H01j 5/00.

#### ELECTRICAL COIL ASSEMBLY.

*Applicant* : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM, B 19 2XF ENGLAND.

*Inventor* : KEITH JAMES WILLIAM BEECH.

Application No. 1173/Cal/77 filed July 30, 1977.

Convention date August 21, 1976/(34933/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

An electrical coil assembly comprising an annular electric coil having a rectangular aperture therethrough, and a covering over the coil, said covering being formed of a flexible, electrically insulating sheet which has been cut, folded and secured in position so that inner and outer peripheries and front and rear faces of the coil are completely covered whereby a substantially dustproof seal is provided, said sheet having a rectangular aperture therethrough and including flaps which (a) extend along opposite sides of the sheet, (b) engage in the rectangular aperture in the sheet so as to overlies one pair of opposite side edges of the inner periphery of the coil, and (c) are wider than the corresponding dimension of the rectangular aperture in the sheet.

Comp. Specn. 14 Pages.

Drg. 1 Sheet.

CLASS 39K & 47B & 139D.

147776.

Int. Cl.-C01b 2/02.

#### PRODUCTION OF PURIFIED SYNTHESIS GAS AND CARBON MONOXIDE RICH GAS.

*Applicant* : TEXACO DEVELOPMENT CORPORATION, OF 135 EAST 42ND STREET, NEW YORK, NEW YORK 10017, U.S.A.

*Inventor* : CHARLES PARKER MARION.

Application No. 265/Cal/78 filed March 13, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims.

A process for simultaneous production of a product stream of purified synthesis gas and a product stream of CO-rich gas, comprising :

(1) reacting a hydrocarbonaceous feedstock with a free-oxygen-containing gas as hereinbefore described optionally in the presence of a temperature moderator, in the reaction zone of a free-flow noncatalytic partial-oxidation gas generator at a temperature in the range of 1300 to 3000°F and at a pressure in the range of 1 to 250 atmospheres to produce an effluent gas stream comprising H<sub>2</sub>, CO, H<sub>2</sub>O, CO and optionally at least one material from the group H<sub>2</sub>S, COS, CH<sub>4</sub>, N<sub>2</sub>, Ar, and solid particles;

(2) removing from said effluent gas stream from (1) a portion of said solid particles if present, cooling the gas stream by indirect heat exchange in a separate heat-exchange zone, removing from the gas stream any remaining entrained solid particles, and dehumidifying the gas stream;

(3) introducing at least a portion of the clean dehumidified gas stream from (2) into a first gas purification zone and by-passing said first gas-purification zone with the remainder if any; removing by conventional procedure from the gas stream in said first gas-purification zone and H<sub>2</sub>S, COS, and at least a portion of the CO..

(4) introducing partially purified gas from the first gas-purification zone in (3) into a second gas-purification zone and by-passing said second gas-purification zone with at least a portion of the remainder, if any, and removing from said second gas-purification zone by conventional procedure said product stream of CO-rich gas and a separate stream of H<sub>2</sub>-rich gas;

(5) mixing together at least a portion of the H<sub>2</sub>-rich gas from (4) with at least a portion of at least one of the following :

(a) gas processed in the first gas purification zone that by-passes the second gas purification zone in (4); (b) soot-free dehumidified gas that by-passes the first gas-purifi-

cation zone in (3); producing said product stream of purified synthesis gas having a controlled H<sub>2</sub>/CO mole ratio in the range of 2 to 12.

Comp. Specn. 53 Pages.

Drg. 2 Sheets.

CLASS 69A.

147777.

Int. Cl.H01h 75/00.

A DC VACUUM CURRENT BREAKER.

*Applicant*: BHARAT HEAVY ELECTRICALS LIMITED, 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA.

*Inventors*: NANDURI VIDYARDHI.

Application No. 112/Del/78 filed February 10, 1978.

Complete Specification left April 16, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Delhi Branch.

#### 4 Claims.

A d.c. vacuum circuit breaker consisting of first and second main contacts made of any suitable conducting material or alloy and having means for effecting an opening and closure of such contacts and characterised in a trigger electrode to be connected to a voltage source and such that the voltage between the said main contact and trigger electrode is greater than that between said main contacts, said trigger electrode and contacts being encapsulated under high vacuum conditions said trigger electrode being provided in association with one of said contacts, the diameter of the trigger electrode being greater than that of said associated contact.

Prov. Specn. 5 Pages. Comp. Specn. 8 Pages. Drg. 1 Sheet

CLASS 32Fb & 55E.

147778.

Int. Cl.C07c 69/14.

A PROCESS FOR THE PREPARATION OF [2-ISOPROPYL-4-(2-THENOYL-5-METHYL)-PHENOXY] ACETIC ACID.

*Applicant*: SOCIETE D'ETUDES DE PRODUITS CHIMIQUES-SOCIETE ANONYME OF 4, RUE THEODULE-RIBOT, 75017 PARIS, FRANCE.

*Inventor*: M. ANDRE ESANU.

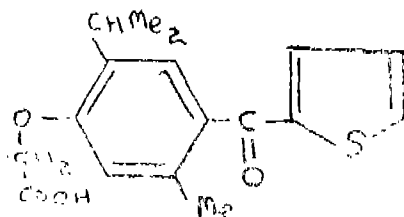
Application No. 233/Del/78 filed March 30, 1978.

Convention date April 22, 1977/(16789/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 2 Claims

A process for the preparation of [2-isopropyl-4-(2-thenoyl-5-methyl)-phenoxy] acetic acid of the Formula I.



Formula I

consisting in reacting 2-isopropyl-4-(α-thenoyl)-5-methylphenol with ethyl monobromoacetate under reflux in a ketonic solvent such as herein described and subsequently hydrolysing the compound thus obtained in a manner known per se.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 146B.

147779.

Int. Cl-B43b 9/02.

A DRAWING COMPASS.

*Applicant*: HELIX INTERNATIONAL LIMITED, OF HELIX WORKS, ENGINE LANE, LYE, STOURBRIDGE, WEST MIDLANDS DY9 7 AJ, ENGLAND.

*Inventor*: RAYMOND ANTHONY PAYTON.

Application No. 930/Cal/77 filed June 21, 1977.

Convention date June 29, 1976/(26952/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims.

A drawing compass, of the kind referred to, having mounted on the projecting stub or barrel an internally screw-threaded clamping ring or nut which is for clamping the pencil, ball-point pen, or the like in place in the stub or barrel and which is held captive on the external screw thread on the stub or barrel by stop means at the inner and outer ends of said external screw thread, characterized in that the clamping ring or nut is of plastics material sufficiently resilient to permit the ring or nut during assembly of the compass, to be moved past the stop means at an end of the external screw thread and sprung into operative engagement with the said external screw thread.

Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 90F & I.

147780.

Int. Cl-B22d 11/02.

ORIFICE PLATE FOR USE IN BUSHING FOR SPINNING GLASS FIBERS.

*Applicant*: NITTO BOSEKI CO., LTD., OF 1, AZA HIGASHI, GONOME, FUKUSHIMA-SHI, JAPAN.

*Inventors*: HIROAKI SHONO, TOSHIO NOJI, SHINZO ISHIKAWA AND ISAO WAKASA.

Application No. 1193/Cal/77 filed August 3, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims.

An orifice plate for use in a bushing for spinning glass fibers having a plain lower surface and provided with a number of densely arranged orifices each of which consists of two cascaded coaxial cylindrical bores of different diameters, one of said bores opening in the upper surface of said orifice plate to constitute a molten-glass inlet-side bore, while the other bore opening in said lower surface to constitute a molten-glass outlet-side bore, characterized in that there exists a relationship between the outermost orifices and the inner orifices located at the inside of the outermost orifices, said relationship being represented by the following equation of:

$$0.57p_u \geq p_s \geq 0.86 p_u$$

where,  $y_u$  and  $y_u$  are variables determined in accordance with the dimensions of the bores of said outermost and inner orifices, respectively, and given by the following equations of:

$$y_s = \frac{Lx}{x^4} + \frac{Ly}{y^4} + \frac{(x^3 - y^3) \tan \theta}{6x^3 y^3}$$

$$y_u = \frac{Lx'}{x'^4} + \frac{Ly'}{y'^4} + \frac{(x'^3 - y'^3) \tan \theta}{6x'^3 y'^3}$$

where,  $x$  and  $x'$  are diameters of said inlet-side bores, respectively, of said outermost and inner orifices,  $L$  and  $L'$  are axial lengths of said inlet-side bores, respectively, of said outermost and inner orifices,  $y$  is the diameter of said outlet-side bores of said outermost and inner orifices,  $L_y$  and  $L_y'$  are axial lengths of said outlet-side bores, respectively, of said outermost and inner orifices, and  $\theta$  is the angle at which a

tapered intermediate section through which said two cylindrical bores in each orifice are connected intersects a plane parallel with the orifice plate.

Comp. Specn. 19 pages.

Drg. 2 Sheets.

CLASS 98G.

147781.

Int. Cl.-B21d 53/06.

METHOD OF PRODUCING A HEAT EXCHANGER TUBE AND TUBE FOR A HEAT EXCHANGER.

*Applicant* : CARRIER CORPORATION, OF CARRIER TOWER, P.O. BOX 1000, SYRACUSE, NEW YORK 13201, UNITED STATES OF AMERICA.

*Inventors* : JAMES EDWIN GREEVER AND JAMES PHILLIP SCHAFER.

Application No. 631/Cal/77 filed April 27, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A method of producing a heat exchanger tube including the steps of slitting a flat elongated sheet of thin gauge material laterally inwardly from both edges thereof to form uniformly spaced fins along the edges of said sheet, bending the fins to a position substantially perpendicular to the plane of the sheet so as to form a U-shaped member having two substantially parallel rows of fins extending upwardly from the base thereof, wrapping the base of the U-shaped element about a tube to provide continuous contact between the base and the outer surface of the tube whereby the fins extend radially outwardly from the tube, establishing a meniscus of adhesive material along both sides of the fin member at the point of contact between the fin member and the tube surface whereby the integrity of the metal-to-metal contact between the base of the fin and the tube surface is preserved, and curing the adhesive to securely bond the fin member to the tube surface.

Comp. Specn. 12 Pages.

Drg. 1 Sheet.

CLASS 10B.

147782.

Int. Cl.-F42b 3/02.

A CARTRIDGE SPACER ASSEMBLY.

*Applicant* : INDIAN EXPLOSIVES LIMITED, OF 34, CHOWRINGHEE, CALCUTTA-700 071, WEST BENGAL, INDIA.

*Inventors* : SRINIVASACHARI SESHAN, RAJIV NAYAN SHRIVASTVA AND KAMAL KUMAR WADHWA.

Application No. 670/Cal/77 filed May 5, 1977.

Complete Specification left August 5, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A cartridge spacer assembly comprising explosives cartridges with or without a detonator embedded therein and spacers, said cartridges and spacers being alternately arranged or arranged as required characterised in that a detonation carrier which is essentially a linear high explosive charge encased in a protective casing is either threaded through the said cartridges and spacers or taped along the length of the said cartridges and spacers.

Prov. Specn. 10 Pages.

Comp. Specn. 13 Pages  
Drg. 1 Sheet.

CLASS 67C & 206E.

147783.

Int. Cl.-H03k 13/02, G08c 9/00.

SIGNAL GENERATING APPARATUS FOR SIGNIFYING THE ANGULAR POSITION OF A FIRST SHAFT ADAPTED TO ROTATE THROUGH A PLURALITY OF ROTATIONS.

*Applicant* : OTIS ELEVATOR COMPANY, OF 750 THIRD AVENUE, NEW YORK, NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventors* : MARVIN MASEL, RALPH JAMES MEEHAN AND JORIS SCHROEDER.

Application No. 1988/Cal/76 filed November 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

Signal generating apparatus for signifying the angular position of a first shaft adapted to rotate through a first plurality of rotations and having a first reference point thereon, which apparatus comprises; a second shaft; a coupling unit coupled between said first and second shaft, said second shaft having a second reference point and being adapted to rotate at a speed different from the speed of rotation of said first shaft through a second plurality of rotations in response to the rotations of said first shaft through said first plurality of rotations; a first rotational signal generator provided on and rotated by said first shaft, said first rotational signal generators generating the same first signals during each rotation of said first shaft, said first signals signifying the angular position of said first reference point during each rotation of said first shaft; a second rotational signal generator provided on said second shaft, said second rotational signal generators generating the same second signals during each rotation of said second shaft, said second signals signifying the angular position of said second reference point during each rotation of said second shaft; and logic circuitry connected to said first and second rotational signal generators and operating in response to the generators to produce angular position signals signifying both the angular position of said first reference point and the number of rotations of said first shaft.

Comp. Specn. 45 Pages.

Drg. 4 Sheets.

CLASS 40F.

147784.

Int. Cl.-F04f 9/00.

ADVANCE DIFFUSER APPARATUS FOR A BLOWER HAVING A LARGE IMPELLER DIAMETER.

*Applicant* : AKTIENGESSELLSCHAFT KUHNLE, KOPP & KAUSCH, OF FRIEDRICHEBERG-STR. 16, D-6710 FRANKENTHAL, GERMANY.

*Inventor* : HELMUT BROBECK.

Application No. 1189/Cal/77 filed August 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

An advance diffuser for an axial blower having an impeller received in a substantially circular housing and an axis extending in a given direction, comprising a suction box formed with an intake opening through which a medium is drawable by suction in a direction substantially perpendicular to the given direction of the blower axis, a plurality of swirl vanes mounted on shaft in said suction box, said suction box having a pair of mutually opposing parallel walls wherein one set of the said shafts are rotatably mounted a pair of housing walls mutually connecting said parallel walls and tangentially merging with and surrounding the substantially circular outline of the impeller housing, said suction box having another wall facing toward the impeller and formed with a circular suction opening, a second set of the said shafts wherein said swirl vanes are respectively mounted being contained by a circular arc surrounding part of said suction opening, said arc having end points mutually connectible by a secant extending through said circular suction opening.

Comp. Specn. 14 Pages.

Drg. 2 Sheets.

CLASS 55B<sub>1</sub> & C & D<sub>1</sub> & D<sub>2</sub>

147785.

Int. Cl.-A01n 23/00.

METHOD FOR PRODUCING A CONTROLLING AGENT FOR CONTROLLING INJURIOUS INSECTS.

*Applicant* : MATSUSHITA ELECTRIC WORKS, LTD., OF NO. 1048, OAZA KADOMA, KADOMA-SHI OSAKA,

JAPAN AND SUMITOMO CHEMICAL COMPANY LIMITED, OF NO. 15, KITAHAMA 5-CHOME, HIGASHI-KU, OSAKA-SHI, OSAKA, JAPAN.

*Inventor* : SHIGENOBU NAKAJIMA.

Application No. 109/Cal/78 filed January 31, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A method for producing a controlling agent for controlling injurious insects, comprising contacting in a manner such as herein defined a porous solid mineral material such as hereinafter described with an insecticidally effective amount of at least one insecticidally active compound wherein the said insecticidally active compound is vaporisable utilising a rising heated air current at a temperature of 200 to 430°C within a short period of time.

Comp. Specn. 46 Pages.

Drg. 2 Sheets.

CLASS 205C & G.

147786.

Int. Cl.-B60b 3/00.

VEHICLE WHEELS AND A METHOD AND AN APPARATUS FOR PRODUCING THE SAME.

*Applicant* : STEEL STAMPINGS LIMITED, OF COOKLEY, NEAR KIDDERMINSTER, WORCESTERSHIRE, ENGLAND.

*Inventor* : WILLIAM HARRY BACHE.

Application No. 536/Cal/77 filed April 7, 1977.

Convention date April 7, 1976/(14041/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

41 Claims.

A method of producing a vehicle wheel constructed with at least two components to be friction welded together, the method comprising forming said components of the wheel separately, placing them in assembled relationship with respective surfaces thereon to be friction welded together in proximity to one another, causing relative rotation between said components about an axis coincident with the axis of the finished wheel, creating relative radial movement of the surfaces towards one another to bring them into contact to generate heat at these surfaces and then stopping the relative rotation of the components to produce a friction weld between the said surfaces.

Comp. Specn. 22 Pages.

Drg. 5 Sheets.

CLASS 182 A & C.

147787.

Int. Cl.-C13c 1/00.

BAGASSE POL AND MOISTURE REDUCER COMPOSITION.

*Applicant & Inventor* : DR. NANDURI ATCHUTA RAMAIAH, NATIONAL SUGAR INSTITUTE, KANPUR, U.P., INDIA AND DR. SUSHIL KUMAR SRIVASTAVA, NATIONAL SUGAR INSTITUTE, KANPUR, U.P., INDIA.

Application No. 135/Del/77 filed June 18, 1977.

Complete Specification left May 9, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

A synergistic composition for reducing the sugar (Pol") content and moisture content in Bagasse before being disposed of comprising a mixture of

(i) an ester of sodiumsulfo-succinic acid and (ii) Alkylarene sulphonate, the said components (i) (ii) being present in the ratio of 4.5 : 2.5 to 3.8 : 3.2.

Prov. Specn. 4 Pages. Comp. Specn. 8 Pages.

Drg. 2 Sheets.

CLASS 129G.

147788.

Int. Cl.-B23k 7/08.

A THERMOCHEMICAL SCARFING PROCESS AND APPARATUS THEREFOR.

*Applicant* : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventor* : STEPHEN AUGUST ENGEL.

Application No. 356/Del/77 filed October 31, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

18 Claims.

In a thermochemical scarfing process wherein (a) a stream of scarfing oxygen is directed against a reaction zone of molten metal on the surface of the metal workpiece to produce a thermochemical reaction thereon, and (b) relative movement is provided between the oxygen stream and the workpiece to continue the reaction along the metal surface to produce the desired scarfing cut, said reaction forming a molten puddle in front of the advancing reaction zone that tends to grow larger as the cut progresses, the improvement comprising :

(c) directing at least one stream of non-reactive fluid so as to form a fluid sheet-like curtain that provides a cover over the reaction zone and at least the rear portion of the molten puddle in such manner that said curtain forms a pocket with the surface of the workpiece.

Comp. Specn. 28 Pages.

Drg. 3 Sheets.

CLASS 107H.

147789.

Int. Cl.-F02b 33/00.

A SUPERCHARGER SET FOR INTERNAL COMBUSTION ENGINES OF RECIPROCATING PISTON TYPE.

*Applicant* : SOCIÉTÉ D'ÉTUDES DE MACHINES THERMIQUES—S.E.M.T., OF QUAI DE SEINE, 93202 SAINT DENIS, FRANCE.

*Inventors* : JACQUES, ERNEST, MAURICE FROELIGER.

Application No. 394/Del/77 filed November 17, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims.

A supercharger set for internal combustion engines of reciprocating piston type, comprising two stages, each of which consists of a turbocompressor or turboblower driven by exhaust gas, the axes of the two turbocompressors or turboblenders being mutually perpendicular, characterized by the arrangement of the high-pressure turbine, the inlet of which is directly connected to the exhaust manifold and which is mechanically coupled to the high-pressure compressor, whereas the low-pressure turbine the inlet of which is connected in series with the outlet of the high-pressure turbine is mechanically coupled to the low-pressure compressor, the discharge port of which is connected in series with the intake port of the high-pressure compressor, which arrangement is combined with the use of a single casing for the egress of the gases from the high-pressure turbine and their ingress into the low-pressure turbine.

Comp. Specn. 8 Pages.

Drg. 1 Sheets.

CLASS 57 D & 15D.

147790.

Int. Cl.-F05f 15/00.

AN AIR TIGHT DOOR ACROSS A RAIL SYSTEM.

*Applicant* : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, OF 3 JOHN STREET, LONDON WC1N 2ES, ENGLAND.

*Inventors* : FRANCIS GILBERT POOLE AND GERWYN TREVELYAN ROWE.

Application No. 243/Del/78 filed April 3, 1978.



Convention date April 29, 1977/(18150/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

An air tight door across a rail system consisting of a rail track which passes through the doorway, said track having space at the doorway, at least one door shaped to provide a closure in the doorway and around the outside of the rail and a plate-like closure member movable transversely to said track in the space such as to meet the door in the closed position thereof and provide closure of an opening which otherwise exists via the track way.

Comp. Specn. 8 Pages.

Drg. 5 Sheets.

CLASS 40F.

147791.

Int. Cl.-C12b 1/00, C12b 1/10.

**A METHOD OF AEROBIC, THERMOPHILE FERMENTATION OF ORGANIC WASTE MATERIALS AND AN APPARATUS THEREFOR.**

*Applicant & Inventor*: VICTOR STAHSCHMIDT, OF 220 SEESTRASSE CH-8002 ZURICH, SWITZERLAND.

Application No. 1762/Cal/77 filed December 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims.

A method of aerobic, thermophile fermentation of organic waste materials comprising storing said materials as a mass lying still and aerating said mass by recirculating at least a part of large quantities of moist aeration medium within the mass or between two separate masses at an elevated temperature, which is at the lower range of an optimal temperature interval of about 40–60°C for an aerobic, thermophile fermentation of the material, rate of absorption being at least ten times the air quantity necessary to cover the biological oxygen demand of the fermenting mass.

Comp. Specn. 17 Pages.

Drg. 3 Sheets

CLASS 55D<sub>3</sub>.

147792.

Int. Cl.-A01n 9/00.

**A METHOD OF PREPARING A SYNERGISTIC FUNGICIDAL FORMULATIONS (A).**

*Applicant*: LILLY INDUSTRIES LIMITED, OF HENRIETTA HOUSE, HENRIETTA PLACE, LONDON W1., ENGLAND.

*Inventor*: ANTOINE CASANOVA.

Application No. 01/Cal/80 filed January 1, 1980.

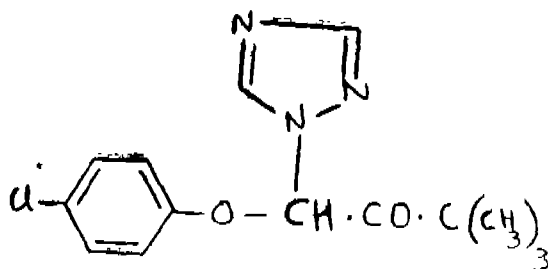
Convention date March 28, 1977/(12972/77) U.K.

Division of Application No. 295/Cal/78 filed March 20, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

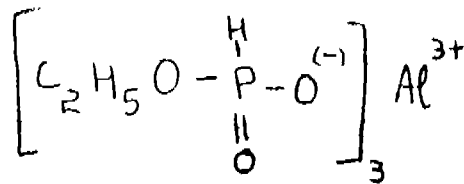
4 Claims

A method of preparing a synergistic fungicidal formulation comprising admixing as one fungicidally active ingredient a triazine compound of the formula I.



Formula I

and an aluminium salt of the formula II.



Formula II

and optionally admixing therewith one or more inert, non-phytotoxic carrier(s) therefor, ratio of formula I to formula II compounds in the formulation being from 5:1 and 1:300 by weight.

Comp. Specn. 6 Pages.

Drg. 1 Sheet.

CLASS 55W<sub>2</sub>.

147793.

Int. Cl.-A01n 9/00.

**A METHOD OF PREPARING A SYNERGISTIC FUNGICIDAL FORMULATION.**

*Applicant*: LILLY INDUSTRIES LIMITED, OF HENRIETTA HOUSE, HENRIETTA PLACE, LONDON W. 1., ENGLAND.

*Inventor*: ANTOINE CASANOVA.

Application No. 02/Cal/80 filed January 1, 1980.

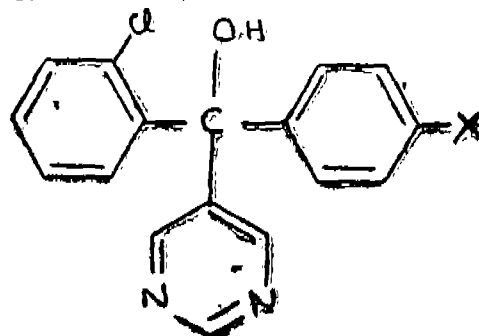
Convention date March 28, 1977/(12972/77) U.K.

Division of Application No. 295/Cal/78 filed March 20, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

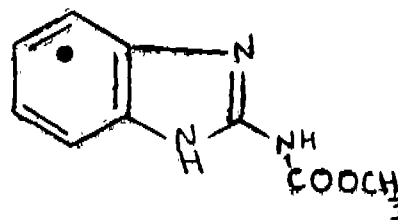
3 Claims.

A method of preparing a synergistic fungicidal formulation comprising admixing as one fungicidally active ingredient a pyrimidine compound of the formula I.



Formula I

where X is chlorine or fluorine, and as a second fungicidally active ingredient a benzimidazole of the formula II.



Formula II

and optionally admixing therewith one or more inert, non-phytotoxic carrier(s) therefor, ratio of formula I to formula II compounds in the formulation being from 5:1 to 1:300 by weight.

Comp. Specn. 8 Pages.

Drg. 1 Sheet.

CLASS 55D<sub>3</sub>.

147794.

Int. Cl.-A01n 9/00.

**A METHOD OF PREPARING A SYNERGISTIC FUNGICIDAL FORMULATIONS.**

*Applicant*: LILLY INDUSTRIES LIMITED, OF HENRIETTA HOUSE, HENRIETTA PLACE, LONDON W. 1., ENGLAND.

*Inventor*: ANTOINE CASANOVA.

Application No. 03/Cal/80 filed January 1, 1980.

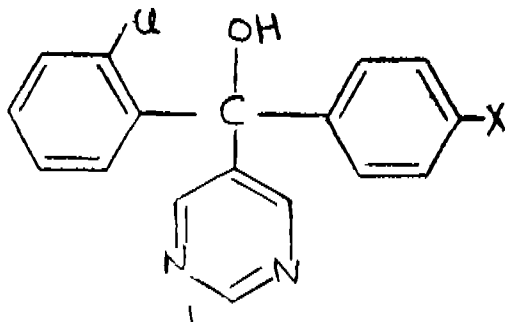
Convention date March 28, 1977/(12972/77) U.K.

Division of Application No. 295/Cal/78 filed March 20, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

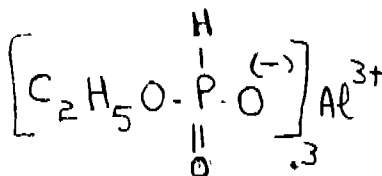
4 Claims.

A method of preparing a synergistic fungicidal formulation comprising admixing as one fungicidally active ingredient a pyrimiding compound of the formula I.



Formula I

where X is chlorine or fluorine, and is a second fungicidally active ingredient an aluminium salt of the formula II.



Formula II

and optionally admixing therewith one or more inert, non-phytotoxic carrier(s) therefor, ratio of formula I to formula II compounds in the formulation being from 5:1 to 1:300 by weight.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 131B.

147795.

Int. Cl.-E 21b 21/00.

#### DRILL BIT WITH SUCTION JET MPANS.

*Applicant:* INSTITUT FRANCAIS DU PETROLE, 4 AVENUE DE BOIS-PREAU 92 502 RUEIL-MALMAISON (FRANCE).

*Inventors:* YVON CASTEL AND HENRI CHOLET.

Application No. 103/Cal/78 filed January 28, 1978.

*Applicant:* INSTITUT FRANCAIS DU PETROLE, 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A drill bit comprising a body member rotatable by a bit holder, said body member being provided with a recess which can be supplied with a pressurized fluid through the bit holder a plurality of rotatable elements carried by the body member and provided with ground cutting means in contact with the hole bottom, flushing means for delivering at least one flushing jet directed towards the hole bottom, said flushing means comprising at least one first calibrated aperture provided in said body member and in direct communication with said recess, said first aperture opening in a first space comprised between two adjacent rotatable elements, suction means for the drilling fluid which has flushed the rotatable elements said suction means being adapted to deliver at least one upwardly directed fluid jet, said suction means comprising at least one second aperture provided in said body member and located above a second space comprised between two adjacent rotatable elements, said first calibrated aperture having a direction substantially parallel to

the drill bit axis and opening at a distance from the hole bottom comprised between  $\frac{1}{3} H$  and  $\frac{4}{3} H$ ,  $H$  being the height of the rotatable elements measured parallelly to the drill bit axis.

Comp. Specn. 9 Pages.

Drg. 4 Sheets.

CLASS 32F a.

147796.

Int. Cl.-C07c 79/02.

#### AN ADIABATIC PROCESS FOR THE MONONITRATION OF BENZENE.

*Applicant:* AMERICAN CYANAMID COMPANY, AT WAYNE, NEW JERSEY, UNITED STATES OF AMERICA.

*Inventors:* VERNER ALEXANDERSON, JAMES BRYAN TRECEK AND CORNELIUS MARSDEN VANDERWAART.

Application No. 418/Cal/78 filed April 15, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims, No drawings.

An adiabatic process for the mononitration of benzene with nitric acid to produce mononitrobenzene, whereby a reactant stream of benzene and a reactant stream of a mixed acid comprising nitric acid, sulfuric acid and water are contacted at an elevated temperature between 80° and 145°C to produce a nitration reaction mixture; whereby the heat of mixing and heat of reaction produced thereby is absorbed by said reaction mixture and utilized therein in the nitration reaction; whereby the product of the reaction, consisting of an organic phase containing said mononitrobenzene and an aqueous phase consisting essentially of hot aqueous sulfuric acid are separated; and whereby said organic phase is washed free of acidic by-products to yield said mononitrobenzene, the improvement which comprises; contacting a reactant stream of upto 10% stoichiometric excess of benzene and a reactant stream of a mixed acid, comprising from 3 to 7.5 percent by weight of nitric acid, from 58.5 to 66.5 percent by weight of sulfuric acid and from 28 to 37 percent by weight of water, to form a nitration reaction mixture at a temperature in the range of from 80°C to 120°C under super-atmospheric pressure which is sufficient to maintain said benzene in said reaction mixture in the liquid state; subjecting said reaction mixture to vigorous agitation for a period of time sufficient to convert substantially all of said nitric acid to mononitrobenzene; separating said reaction product composition, at a temperature not in excess of about 145°C, into an organic phase and an aqueous sulfuric acid phase, said aqueous sulfuric acid phase containing essentially to nitric acid and comprising from about 62 to 68 percent by weight of sulfuric acid; and recovering said mononitrobenzene from said organic phase by known methods said mononitrobenzene being characterized as containing less than about 500 parts per million of dinitrobenzene.

Comp. Specn. 13 Pages.

Drgs. Nil.

CLASS 98D.

147797.

Int. Cl.-F28f 1/00.

#### APPARATUS FOR INCREASING THE PRESSURE AND TEMPERATURE OF EXHAUST WORKING FLUID FROM A HEAT ENGINE.

*Applicant & Inventor:* PAUNE MORCOV, OF 6050 OFFENBACH AM MAIN GEORG BUCHNER WEG 12, FFDRAI. REPUBLIC OF GERMANY.

Application No. 438/Cal/77 filed March 24, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

Apparatus for increasing the pressure and temperature of exhaust working fluid from a heat engine comprising at least one pair of contra-rotating drums each containing a spirally coiled pipe, and located within a casing so that successive

sections of each drum pass in sequence through two heated zones, a neutral zone, and a cooled zone, the pipes of the drums being connected so that fluid fed of one drum passes in succession through both drum pipes to an outlet from the other drum.

Comp. Specn. 19 Pages.

Drg. 7 Sheets.

CLASS 129G & J.

147798.

Int. Cl.-B23p 3/06.

A DEVICE FOR ALIGNING THE INLET AND OUTLET GUIDES IN A ROLLING MILL STAND.

*Applicant*: SOCIETE DES ACIERS FINS DE L'EST, OF 40, RU DE PARIS, 92100 BOULOGNE BILLANCOURT, FRANCE.

*Inventor*: RAYMOND SEMRE.

Application No. 1458/Cal/77 filed September 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A device for aligning the inlet and outlet guides of a rolling-mill stand with a rolling caliber between, two rolls carried by said stand, characterized in that it comprises two rulers to be positioned on the rolling-mill stand on both sides of the above guides and in parallel relationship to the roll axes, two slides moveable along each of said rulers respectively and the movements of which can be measured, and a rod engaged in each of said slides, said rod being adapted to be centered at sight in the rolling caliber and orientated through the correspondence of the position-readings of the two slides along their respective rulers, with a view to materializing the location axis of said inlet and outlet guides.

Comp. Specn. 10 Pages.

Drg. 2 Sheets.

CLASS 153.

147799.

Int. Cl.-B24b 37/00 B23f 19/02.

A LAPPING DEVICE FOR LAPPING OF SPIRAL OF BEVEL AND HYPOID GEARS AND PINIONS.

*Applicant & Inventor*: MADHUSUDAN HIRALAL DESAI, C/O. K. R. PATEL, LOUDON STREET, CALCUTTA, INDIA.

Application No. 306/Cal/78 filed March 21, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A lapping device for lapping of spiral bevel and hypoid gears and pinions comprises a first AC synchronous machine the shaft of which is connected or coupled to a first spindle on the free end of which a pinion to be lapped is mounted, the pinion meshing with a gear on the free end of a second spindle which is at right angles to the first spindle and which is connected or coupled to the shaft of a second AC synchronous machine through a set of pinions and gears, the stators of both the said machines being connected to same busbars and means for selectively varying DC excitation current to the field coils on the rotors of both the said synchronous machines and thereby run the machines alternately as an alternator or a motor in opposite directions and also cause a constant braking force to be applied alternately to the two spindles.

Comp. Specn. 8 Pages.

Drg. 1 Sheet.

CLASS 205A & H.

147800.

Int. Cl.-B60c 5/12, B60c 15/00.

IMPROVEMENTS IN RADIAL TYRES.

*Applicant*: INDUSTRIE PIRELLI SPA, OF CENTRO PIRELLI, PLAZZA DUCA D'AOSTA NO. 3, 20100 MILAN ITALY.

*Inventor*: LUIGY MAIOCCHI.

Application No. 438/Del/77 filed December 6, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

A radial ply tyre having an aspect ratio not greater than 0.7, suitable for mounting on a wheel rim having bead seats inclined at an angle of substantially  $15^\circ$  with respect to the rotation axis of the tyre, the beads of said tyre each having a bead core around which, from inside towards outside, the end portion of the carcass ply or plies is turned-up, said bead cores being constituted of rubberized metallic wires, wound so as to present a polygonal cross-section elongated in the axial direction of the tyre, and in which the side constituting the bead core base is inclined at an angle of substantially  $15^\circ$  with respect to the said rotation axis, said bead core having an irregular geometric cross-section whose barycentre is located at an axial distance from the mid-plane of the bead core base in the range from 7% to 30% of the axial width of said base.

Comp. Specn. 12 Pages.

Drg. 2 Sheets.

CLASS 32F.

147801.

Int. Cl.-C07c 103/20.

PROCESS FOR THE PREPARATION OF ISOBUTYRAMIDE DERIVATIVES.

*Applicant*: SOCIETE D'ETUDES DE PRODUITS CHIMIQUES—SOCIETE ANONYME OF 4, RUE THEODULE-RIBOT, 75017 PARIS, FRANCE.

*Inventor*: M. ANDRE ESANU.

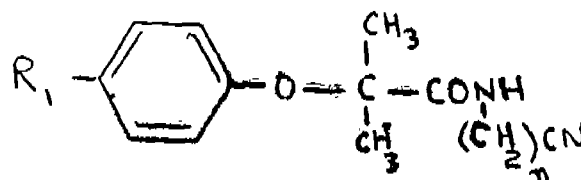
Application No. 94/Del/78 filed February 6, 1978.

Convention date March 10, 1977/(10069/77) U.K.

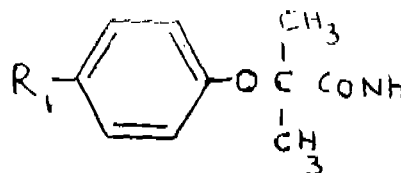
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

1 Claim.

A process for the preparation of the isobutyramide derivatives having the general formula I.



wherein  $R_1$  represents a halogen atom and  $n$  is an integer from 2 to 6, consisting in reacting, in dioxane, the correspondingly substituted phenoxy isobutyramide of the formula II.



on the appropriate N-cyanoalkylene  $\text{CH}_2 = \text{CH} - (\text{CH}_2)_p - \text{CN}$  ( $p$  is an integer from 0 to 4) in the presence of mineral base as herein described at a temperature between  $50$  and  $65^\circ\text{C}$ .

Comp. Specn. 4 Pages.

Drg. 1 Sheet.

#### OPPOSITION PROCEEDINGS

An opposition has been filed by Harish Textile Engineers Private Limited to the grant of a patent on application No. 147097 made by Kiranchandra Vasant Mysore.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy:—

(1)

141957 141959 141960 141961 141962 141963 141964 141965  
141966 141967 141968 141970 141972 141974 141975 141976  
141977 141978 141980 141981 141982 141983 141984 141985  
141987 141988 141989 141990 141991 141992 141993 141994  
141995 141996 141997 141999 142000 142001 142002 142003  
142004 142006

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140484 140488 140505 140510 140570 140577 140607 140619  
140661 140789 140792 140818 140826 140842

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140960 140965 140980 141061 141062 141065 141080 141116  
141130 141152 141160 141166 141177 141179 141180 141181  
141182 141183 141185 141186

## PATENTS SEALED

141766 143428 145302 145493 145494 145500 145582 145801  
145820 146689 146694 146698 146708 146721 146729 146763  
146775 146783 146793 146866 147079

## AMENDMENT PROCEEDING UNDER SECTION 57

(1)

Notice is hereby given that Dow Badische Company, a corporation of Delaware, United States of America, whose principal place of business is at Williamsburg, Virginia, United States of America, have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for patent No. 132143 for "Method of preparing shaped or hollow acrylic fibers and fibers so prepared". The amendments are by way of correction and explanation. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(2)

The amendments proposed by the Director, Central Water & Power Research Station, in respect of patent application No. 143492 as advertised in Part III, Section 2 of the Gazette of India dated the 29th September, 1979 have been allowed.

(3)

Notice is hereby given that Stauffer Chemical Company, of Westport, Connecticut, United States of America, a company organized under the laws of the State of Delaware, United States of America, have made an application under Section 57 of the Patents Act, 1970 for amendments of specification of their patent No. 144810 for "Process for producing di-

phenyl ether oxides". The amendments are by way of correction and disclaimer. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(4)

Notice is hereby given that Chief Controller, Research & Development, Ministry of Defence, Government of India, New Delhi have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for patent No. 146911 for "A process for preparing a silicon based heat resistant aluminium paint". The amendments are to make the description more clear. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—

140781  
140037

M/s. Lolift (U.K.) Limited.

## PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970: The dates shown in the crescent brackets are the dates of the patents.

## No. &amp; Title of the invention

- 138917 (7-12-73) Process for preparing phosphorodithioic acid.  
139415 (26-10-73) Process for preparing DL-methionyl-DL-methionine.  
139458 (16-06-73) Process for producing powdery hydrophilic fillers.  
139544 (20-02-74) Method and apparatus for producing metal.  
139571 (21-09-73) A method of preparing a ferrous product having Al-Zn coating.  
139572 (19-10-73) Process for recovering high purity free flowing crystalline manganese dioxide from impure manganese nitrate solution.  
139574 (09-01-74) Method of carrying out endothermic metallurgical reduction process with the aid of control operating mechanical kiln.  
139616 (06-07-73) Improved method and plant for the manufacture of sulfuric acid.  
139617 (19-07-73) Process for the manufacture of phosphoric acid amides.  
139620 (22-02-74) Process for preparation of alpha-ammonacyl-3-halo cephalosporin.

- 139621 (16-04-74) Process for the production of protein rich products.
- 139626 (14-08-74) Process for electrostatic separation of pyrite from crude coal.
- 139627 (14-08-74) Method of manufacturing a milk chocolate.
- 139647 (18-12-73) Process for preparing copolymer of trioxane.
- 139652 (24-07-74) Process for recovery of protein.
- 139655 (09-05-73) A process for the preparation of new 2-methylthio-4-alkylamino-6 ( $\alpha$ ,  $\alpha$ -dimethyl)- $\beta$ -acetyl-ethylamino-1, 3, 5-triazine.
- 139658 (18-01-73) Method of making a catalyst precursor for the synthesis of methanol.
- 139727 (09-01-73) Process for preparing water soluble reactive dyestuff.
- 139737 (06-02-73) A method of producing a silicon rich material and an electric furnace for carrying out said method.
- 139742 (25-06-74) Process for preparing  $\beta$ -galactosides.
- 139829 (16-03-74) A process for removing sulfuric acid colour producing impurities present in acetaldol route 2-ethyl hexanol and refining the product so obtained.

## SUPPLEMENTARY LIST NO. I

## COMMERCIAL WORKING OF PATENTED INVENTION

The following patents in the field of Mechanical and General Engg. are not being worked commercially in India as admitted by the Patentees in the statement filed by them under Section 146(2) of the Patents Act, 1970 in respect of Calendar year 1978 generally on account of want of request for licences to work the patented inventions.

Persons who are interested to work commercially the said patents may contact the patentees for the grant of licences for the above purposes.

S. No.	Patent No.	Date	Name of the Patentee	Title of the invention
1	2	3	4	5
1	97944	15-02-1965	STAMICARBON B.V. Post Box 10, Geleen The Netherlands	Screening device comprising of a sieve band capable of turning on a shaft.
2	99613	19-05-1965	CHIYADO KAKO KENSETSU K.K. KUREHA KAGAKU KOGYO K.K. (1) of 12, e-Chome Tamachi Akasaka, Minato-ku Tokyo and (2) of 15 of No. 10, Tomizawa-Cho, Nihon-bashi, Chuo-ku, Tokyo.	Flameless Radien Burner.
3	101756	27-09-1965	INSTITUT FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS 1et, 4, Avenue de Boi 5 Preau, Rueil, Malmaison France	Device for Carrying out underwater explosion.
4	102025	13-10-1975	SARCOINTERNATIONAL CORPN., 2, Park Avenue, New York, New York, U.S.A.	Stevmt rap 1
5	102349	02-11-1965	MASAYUKI TAKAMORI; 5, of No. 281, Hiraoka-cho-sakai-shi, Osak-fu, Japan.	Structure for breaking waves.
6	103735	02-02-1966	INSTITUT FRANCAIS DU PETROLE DES CARBURANTS ET LUBRIFIANTS, FRANCE.	Apparatus for firing explosive charges underwater.
7	104278	11-03-1966	WRIGHT RAIN LTD., Crowe, Ringwood, Hampshire, England.	Pipe couplings.
8	105278	16-05-1966	STAMICARBON B.V., The Netherlands.	Apparatus for feeding material handling devices.
9	106004	02-07-1966	VICKERS LIMITED, Vickers House, Millbank tower, London swip 4RA, England.	Apparatus for melting of grain
10	111552	18-07-1967	SARCO INTERNATIONAL CORPN, U.S.A.	Self Cleaning Guide Bushing.
11	111581	19-07-1967	Do.	Control Valve.
12	111749	31-07-1967	CATERPILLAR TRACTOR CO; 10 N.E. Adams Street, Peoria, Illinois, 61629, U.S.A.	Track link.
13	112412	19-09-1967	STAMICARBON B.V. P.O. Box 10, Geleen, The Netherlands.	Hydrocyclone washer.
14	113699	19-12-1967	INSTITUTE FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS, 1 et 4, Avenue de Bois-Preau, 92, Rueil, malmaison, France.	Device for detonating explosive charges in a liquid medium.

1	2	3	4	5
15	111667	05—07—1968	ALBRIGHT AND WILSON LTD., P.O. Box. 3 Oldbury, Warley, Wores, England.	Frictional retarding means.
16	117568	04—09—1968	N. V. PHILIPS GLOEILAMPENFABRIEKEN, Half Element Netherlands	
17	118669	20—11—1968	INSTITUT FRANCAIS DU PETROLE, DES CARBURANTS ET LUBRIFIANTS, FRANCE.	Device for emitting accoustic waves in a liquid medium.
18	124180	06—06—1969	KATSUJI FUJIWARA 191, Nishitani, Hiroock-chu, Hyogo-ken, Japan.	Ball valve.
19	129570	30—03—1970	PLATT SACO LOWELL LIMITED., Holcombe Road, Helmshore, Rossendale, BB-4 4NG Lancashire, England.	Open end spinning devices.
20	126022	01—04—1970	ABRAHAM KOGAN, 35A Trumpeldor Avenue, Nere shaanagn, Haipa, Jsreal	Apparatus for producing liquid in which heat and for mass is transferred thereto from another liquid.
21	126440	30—04—1970	ROCHE RAMCHAND PARDASANI Bhatia Bldg., 87 Ranade Road, Dadar, Bombay.	Locks.
22	126793	25—05—1970	ENVIROTECH CORPN., 537, WEST SIXTH SOUTH SALT LAKE CITY, UTAH, U.S.A.	Apparatus for vaccum filtering.
23	127049	12—06—1970	GLAVERBEL MECANIVER, 166, Chausee, de la Hulpe, Watermaelbeits fort, Belgium.	Article handling apparatus.
24	127214	27—07—1970	TED BILDPLATEN; Hanibutal 8, Post fach-126, Switzerland.	Pressure pick-up for reproducing defor- mations of recording carrier relatively, when moved in its direction.
25	127215	27—07—1971	Do. Do.	Machanism for driving of a playback system.
26	127420	05—05—1971	CARBORUNDUM UNIVERSAL LTD., 1112, North Beach Rd., Madras-1.	A grinding and/or polishing attachment device.
27	127400	05—08—1970	WRIGHT RAIN LTD., Crowe, Ringwood, Hampshire.	Rotary water sprinkler.
28	127449	10—08—1970	CARDING SPECIALISTS CO. LTD., Pellon Lane Works, Halifax, England.	Hydraulic circuit.
29	128000	12—08—1970	EMHART INDUSTRIES INC., 426, Colt Highway Farmington, U.S.A.	Foreign particle inspection machine for liquid filled containers.
30	128031	14—08—1970	CLEVITE CORPN., 17000 St. Clair Avenue, Cleveland,, Ohio, U.S.A.	Aluminium alloy-steel bearing and method of making the same.
31	128159	25—08—1970	BRITISH STEEL CORPN.; 33, Gros venore Place, London, S.W.1, England.	Spigot and Socket pipe joint.
32	128172	26—08—1970	WILLIAM STEPHEN SCHNEIDER; 1765, Rohr Street, Glendale, California-91202, U.S.A.	Multiple compartment package.
33	128343	08—09—1970	HERMANN PAPST; Karl-Maier Strasse, Schwar-2, Walt, F.R.G.	A hollow body transporter for transport- ing utility gases.
34	128697	05—10—1970	ENVIROTECH CORPN; 537, West Sixth South Salt Lake City, Utah, U.S.A.	A Float apparatus.
35	128699	05—10—1970	OTTO INDIA PVT LIMITED 10, Middleton Row, Calcutta-17, India.	Changing car for coke ovens

1	2	3	4	5
36	129066	30—10—1970	VOITH GETRIEBE K.G., F.R.G.	Hydrodynamic reversing gear.
37	129133	06—11—1970	NATALE CANTONE Corso M. Prestinari, 162, Vercelli, Italy.	Agricultural machine for filling soil.
38	129192	13—09—1971	ATIRA, P.O. Polytechnic, Ahmedabad-15.	Dual dryer for textile and like materials
39	129199	12—11—1970	FEATHER INDUSTRIES, 1—650, Matsumari, Mino City Gifu, Prefecture, Japan.	An operating knife.
40	129482	03—12—1970	HANSEN TRANSMISSION INTERNATIONAL, Naamleze, Vernootschap, Edegem, Belgium	A set of gear speed reducers.
41	129531	07—12—1971	ASAHI CHEMICAL INDUSTRY CO., 25-1, Dojima-ku madari-1-chome, kita ku, Osaka, Japan.	A bobbin and method of producing the same
42	129583	14—12—1970	ENVIROTECH CORPN; U.S.A.	Apparatus for steam drying filter cake.
43	129687	21—12—1970	MIDLAND-ROSS CORPN., U.S.A.	Railway car coupler.
44	129741	26—12—1970	WILHELM STAHLCKER GmbH, 7341, Reichenbach, Wuerttemberg, West Germany.	Twin top rollers for drafting systems of spinning machines and a method of producing the same.
45	129998	19—01—1971	ETHICON INC., Sommerville, New Jersey, U.S.A.	Electropolishing drilled surgical needles and apparatus therefor.
46	131533	29—05—1971	SIMMS MOTOR UNITS LTD., East Finchley, London, England.	Liquid fuel injection pumping apparatus.
47	132174	20—07—1971	JOSEPH LUCAS (INDUSTRIES) LTD., England.	Ignition distributors for road vehicles.
48	132218	23—07—1971	ABILDGAARD LABORATORIES INC., 857, Mande Avenue, Mountain View, California, 94040, U.S.A.	Uncased book.
49	132216	23—07—1971	SEALED POWER CORPN., 2001, Sanford Street, Muskegon, Michigan-49443, U.S.A.	Manufacture of space expanders.
50	134169	03—01—1972	C.S.I.R., New Delhi-1, India.	A Strain gauge transducer.
51	134170	03—01—1972	Do. Do.	A strain gauge pressure transducer.
52	134539	08—02—1972	VEB POLYGRAPH LEIPZIG KOMBINAT, 59, Zweinaender, Strasse, 705, Leipzig, East Germany.	Thread sealing sheet portions.
53	134540	08—02—1972	Do. Do.	Thread stitching method.
54	134541	08—02—1972	Do. Do.	Stitching apparatus.
55	134542	08—02—1972	Do. Do.	Folded and thread sealed sheet products.
56	134560	10—02—1972	SIR JAMES FARMER NORTON AND CO. LIMITED, Adelphi Street, Salford 3, Manchester, England.	Treating webs.
57	136346	04—08—1972	TECHNICON INSTRUMENTS CORPN; 511, Benedict Avenue, Tarrytown, N.Y., U.S.A.	Apparatus for continuous casting.
58	137209	20—10—1972	THE LUCAS ELECTRICAL CO. LTD., England.	Brakes for vehicles.
59	137655	21—07—1973	C.S.I.R. New Delhi-1, India.	Determination of acoustic anisotropy.
60	138582	10—04—1973	EMHART INDUSTRIES, INC., U.S.A.	Glassware forming machine.
61	x138585	22—03—1973	GIRLING LIMITED, ENGLAND	Brake adjuster.
62	138628	27—03—1973	DR. C. OTTO & COMP. GMBH; West Germany.	Regeneratively heated coke ovens.

1	2	3	4	5
63	138639	22-05-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, 12 Quai Henri IV, 75181, Paris Cedex 04, France.	Apparatus for machining the inside of large cylindrical bodies.
64	138654	18-04-1974	PARKS CRAMER (CR-BR) LTD., Sathero Street, Oldham, Lancashire, England.	Apparatus for collecting fibre wast from open end spinning machine.
65	138656	19-03-1973	USS ENGINEERS AND CONSULTANTS INC U.S.A.	Rolling Mill mould.
66	138671	11-06-1973	S.K.F. GMBH; 8720, Schwienfurt, 2, Deutsche hand, Ernest-Sachs Strasse, 2-8, F.R.G.	Bearing for spinning and twisting handle.
67	138680	28-02-1973	VANDERVELL PRODUCTS LIMITED Nordon Road, Maidenhead, Berkshire, England.	Bearing of axles of railway vehicles.
68	138681	19-11-1973	CATERPILLAR TRACTOR CO., U.S.A.	Flat track shoe with tapered end ribs.
69	138703	07-03-1973	DUNLOP LIMITED, Dunlop House, Ryder Street, St. James London, SW.1 England.	Apparatus for curing elongated articles.
70	138733	29-03-1974	F.L. SMIDTH AND CO., A/S, 77 Vigersler Alle, Copenhagen Valby, Denmark.	Rotary drums with transmissionless drive.
71	138748	28-02-1974	SNAMPROGRETTE SPA, 16, Corso Venezia, Milan, Italy.	A vehicle suitable for introduction into and movement along pipelines and for carrying apparatus for performing cons- tructions, maintenance for test function inside the pipeline.
72	138763	11-09-1973	CHICAGO PNEUMATIC TOOL CO., 6 East 44th Street N.Y.N.Y., U.S.A.	Stall torque air shut off control for pneu- matic nut runners
73	138773	12-09-1973	ELLALOR A.G., Fabrik Fur Elektrosche Thermische Apparate, Bleichemattstrasse, 5000 Aarau, Switzerland.	Device for testing hollow bodies.
74	138775	12-10-1973	DEERE AND CO. Moline Illinois U.S.A.	An agricultural machine.
75	138777	31-06-1974	(1) KUMANDUR SRINIVASIYENGAR RANGASAMI and (2) RASAVIHARI BURRA; Bothof Regional Engineering College Rourkele 8 Orissa.	Double layered braced domes.
76	138778	07-03-1974	MASCHINENFABRIK AUGSBURG- NVRNBERG A.G. Katzwangerstrasse 101, 830 Nurnberg 2 F.R.G.	Piston assemblies.
77	138780	16-04-1974	GIRLING LIMITED England.	Hydraulic braking system for vehicles.
78	138799	06-12-1973	UOP INC; Ten UPO Plaza, Algonquin, and Mt. Prospect Roads, Desplaines, , Illinois, 60016, U.S.A.	Vehicle seats.
79	138802	03-03-1973	JACQUES HENRY MERCIER; 49, rue de Naples Paris (Seme) France	Pressure vessel.
80	138809	13-03-1973	Dr. C. OTTO AND COMP. GmbH; West Germany.	Hot blast stove.
81	138820	14-01-1974	G.D. SOCIETA PER AZIONI, Italy.	Device for coordinating and feeding sepa- rately objects particularly sweets simi- larly to wrapping machine.
82	138842	12-06-1973	EMHART (U.K) Ltd., Crompton Road, Whetley, Doncaster, Yorkshire, England.	Valve block.
83	138897	02-02-1973	SAINT-GOBAIN INDUSTRIES; 62, Bird, Victor hugo Neuilly-Sur-Seine. France.	A composite constructional element for acoustic insulation.
84	138898	29-03-1974	WERNER GLATT; 7859, Haltingen, West Germany.	Drying device for a rotary dragee making kettle.



1	2	3	4	5
85	138916	13—11—1973	RODWICK BRIRICKWORKS CO. Ltd. Lynwick Street, Rudgwick, Sussex RH12 3DH, England.	Manufacture of bricks.
86	138925	28—05—1974	HARBANS LAL MALHOTRA AND SONS Ltd., 12, New CIT Road, Calcutta-12.	A blade dispenser.
87	138926	12—03—1973	JACQUES HENRY MERCIER 4, Grus de Naples, Paris (8 eme) France.	Pressure vessel.
88	138953	13—06—1973	CANADIAN JESUIT MISSIONS, 833, Broadview Avenue Toronto, Ontario, Canada.	I-C engine using hydrogen as fuel.
89	138974	27—06—1973	PALITEX PROJECT-Co. GmbH, Weeser- wegs, 415, Krefeld, West Germany.	Suction means for use on spinning twisting machine.
90	138996	07—03—1973	THE GOOD YEAR TIRE AND RUBBER Co. 114, East Market Street, Akron, Ohio, U.S.A.	Tire building machine.
91	139002	07—08—1973	THE CROSS CO., 17801, Fourteen Mile Road, Fraser Michlign, 48026, U.S.A.	Test stand for vehicle engines.
92	139011	14—03—1973	USS ENGINEERS AND CONSULTANTS INC., U.S.A.	Idler roll mounting construction.
93	139041	07—05—1973	C.S.I.R., New Delhi, I, India.	A gas lighter.
94	139044	16—01—1974	VYZKUMNY USTAV BEVLNASCKY, USTINAD ORLIA, Czechoslovakia.	Separating fibre for ringless spinning.
95	139056	27—09—1973	USS ENGINEERS AND CONSULTANTS INC. U.S.A.	Composite roll forming
96	139060	08—10—1974	MCNEIL CORPN; 95, East Crosier Street, Akron, Ohio-44311, U.S.A.	Apparatus to position a tire for curling.
97	139070	23—04—1974	GUSTAICKEES; Karlebader Strasse, 19, 6462 Geluharsen, Haiker, West Germany.	A wall element preferably for use as a stress bearing, outer wall part.
98	139073	01—05—1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B. V. Carel Var Bylandtla n 30, TherHague, The Netherlands.	An atomiser.
99	139080	26—02—1973	USS ENGINEERS AND CONSULTANTS INC; U.S.A.	Rotating elongated articles.
100	139094	17—07—1974	GIRLING LIMITED, England.	Disc Brakes.
101	139109	08—05—1974	DR. C. OTTO AND COMP GmbH; West Germany.	A gas collecting device for a coke oven battery.
102	139150	11—07—1973	MCNEILL CORPN; U.S.A.	Apparatus for holding an uncured pneu- matic tire.
103	139160	28—09—1974	CRUSIBLE S.A., 14 Rue, Aldringen, Luxem- bourg.	Fire detectors.
104	139185	07—08—1974	GENERAL ELECTRIC CO., 1 River Road, Schenectady, N.Y. U.S.A	Cooling system for colling I-C engines.
105	139189	18—05—1973	ISHIKAWAJIMA-HARIMA JUKOGYO K.K. 2-1, 2-Chome, Ote-machi, Chiyodaku, Tokyo-To, Japan.	Burning of Materials of cement and the like.
106	139225	28—09—1974	ACME-CLEVELAND CORPN; 1242, East 49th Street, Cleveland, Ohio-44114, U.S. A.	A foundry mixing machine.
107	139233	28—06—1973	PLATT INTERNATIONAL LTD., England	Silver feeding device for an open-end spin- ning machine.
108	139238	04—04—1974	KRAFTWERK UNION AIG., Weisenstrsse 35, 4330, Munchem, Ruhr, F.R.G.	A shaft packing assembly.
109	139258	11—03—1974	C.S.I.R., New Delhi-1, India.	Drive arrangements for foil materials through countinuous processing equip- ment with special reference to the maintenance of constant linear speed.
110	139269	27—03—1974	HOECHST AKTIENGESELLSCHAFT, 6230, Frankfurt, Main, 80, F.R.G.	Single injection syringe.

1	2	3	4	5
111	139271	12—11—1974	HITACHI LTD., 5-1, 1-Chome, Masunonchi, Chiyoda-Ku, Tokyo, Japan.	Chopper control system.
112	139272	18—04—1973	R.C.A. CORPN., U.S.A.	Colour image retranslating system.
113	139283	21—12—1974	THE FERTILIZER (PLANNING AND DEV.) INDIA LTD.,	Construction of grates in fluidised bed.
114	139306	25—09—1974	KAUTEX WERKE REINOLD HAGEN GmbH; 5300, Bonn-Hadzarl, F.R.G.	Production of hollow articles of thermo plastic materials by blowing process.
115	139326	19—07—1973	CALEDONIAN MINING CO. LTD., Carlton House, Carlton-on-Trent, Newark, England.	Apparatus for preparing and dispensing mixtures of concrete and fibres.
116	139363	28—02—1974	RCA, CORPN; U.S.A.	Optical system.
117	139389	20—03—1974	GENERAL ELECTRIC CO., 1 River Road, Schenectady, N.Y. U.S.A.	Composite wire drawing die.
118	139407	06—12—1972	RHONE-POULENG S.A., 22 Avenue, Nontaigne, Paris 8e, France.	An artificial kidney.
119	139425	30—05—1974	CONCAST A.G, Todistrasse 7, CH-8027, Zurich, Switzerland.	Cooling continuously cast strand.
120	139452	07—01—1974	C.S.I.R., India.	Paint stripper.
121	139476	31—08—1973	DEERE AND CO., Moline, Illinois, U.S.A.	Crop harvesting machine.
122	139485	29—03—1973	GKN TRANSMISSIONS LTD., Chester Road, Erdington, Birmingham, England.	Universal joints.
123	139486	03—04—1973	DRESSER INVESTMENTS N.V., Willemsted, Curacao, Netherlands.	Variable venturi apparatus for mixing and modulating liquid fuel and intake air for an I-C Engine.
124	139498	26—06—1974	SIMON CARVES LTD., P. O. Box, 31 Stockport, Cheshire, England SK-3, OTJ.	A device for facilitating the discharge of solid particulate material from a hopper.
125	139525	26—09—1973	(1) PROFESSOR Dr. ING. FRITZ LEONHARDT. (2) DR. ING. WOLFHART ANDCA (3) BAU-ING. WILLI BAUER (4) DIPL. ING. WILHELM ZELLNER (5) DR. ING. JORG SCHLAICH; all of Lenzhalde 16, 7stuttgart 1, West Germany.	Structures.
126	139536	25—05—1973	GIB PRECISION LTD., Barton Lane, Cirencester, GL 72ED, England.	Overload clutch.
127	139539	10—08—1973	OLE BENDT RASMUSEEN of 14 Anemones, Gentofte Denmark and Beghin Say, of 59239 Thumeries, France.	Production of net.
128	139547	17—09—1974	SCHUBERT AND SALZER MASCHINEN-FABRIK AG., Friedrich-Ebert-strasse 84, 8070 Ingolstadt, West Germany.	Device for opening fibre bales.
129	139548	05—10—1974	PALITEXT PROJECT-CO. GmbH; West Germany.	Anti ballooning device for twisting machine.
130	139554	27—10—1974	C.S.I.R., New Delhi-1, India.	Diffusion welding of stainless steel to mild steel in air.
131	139556	24—01—1974	JOHNS MANVILLE CORPN; Greenwood Plaza, Dauver, Colorado, 80217, U.S.A.	Making a bell and a heat deformable pipe.
132	139562	11—01—1973	INTERNATIONAL BASIC ECONOMY CORPN; 1271, Avenue of the Americas, N. Y. U.S.A.	Apparatus for drying and compacting material flowing through a conduit.
133	139566	22—05—1973	DUNLOP LTD, England.	Pneumatic tyres and its manufacture.
134	140370	29—09—1973	SPENCER BING-TANG LIN; 3F, No. g. Lane-4, Chin-Choustreet, Taipei, Taiwan, Republic of China.	Plastic bag having tightening barrel.

1	2	3	4	5
135	140420	22—10—1974	BRIDGESTONE TIRE CO. LTD., No. 1-1, 1-Chome, Kyobashi, Japan.	Pneumatic tyres.
136	140519	22—08—1973	DUNLOP LTD., England.	Pneumatic tyres.
137	149569	22—03—1974	(1) EDWARD POTTER, 14415 S.W. 6th Bearerton, Oregon 97005 U.S.A. (2) DANT AND RUSSEL INC. 2000 S.W. 5th Ave, Portland, Oregon 97204, U.S.A.	Making particles board.
138	140606	30—01—1973	CATERPILLAR TRACTOR CO. U.S.A.	Pilot control valve.
139	140620	28—09—1974	THE LUCAS ELECTRICAL CO. LTD., England.	Starter motors for I-C, engines.
140	140702	27—08—1973	GIRLING LTD., England.	Servo boosters for vehicle braking.
141	141081	04—08—1973	INDUSTRIE PIRELLI SOCIETE PER AZIONI, Centro Pirelli Piazza, Duca D' Asota No. 3, Milan 20100, Italy.	Pneumatic tyres.
142	141159	10—10—1973	THERMO KING CORPN, Minneapolis, Minnesota, U.S.A.	Transportable refrigerator for perishables.
143	141290	27—08—1974	EMHART INDUSTRIES INC., U.S.A.	Magnetic drive for conveyor.
144	141309	19—02—1975	C.S.I.R., New Delhi-1, India.	Probe for ultrasonic therapy.
145	141313	03—07—1975	THE GOOD YEAR TIRE AND RUBBER CO., U.S.A.	A method of retreading a tyre.
146	141318	22—02—1974	INDUSTRIE PIRELLI SOCIETE PER AZIONI, Italy	Pneumatic tyre.
147	141321	31—08—1974	KENTREDDER LTD., Longueville, St. Saviour, Jersey, British Channel Islands.	A method of treadng tyres.
148	141469	22—08—1974	U.S.S. ENGINEERS AND CONSULTANTS INC., U.S.A.	Horizontal roll rock for continuous casting.
149	141531	27—12—1974	LIBBEY-OWENS FORD CO., 811, Madison Avenue, Toledo, Ohio, U.S.A.	Method of bending glass sheets.
150	141920	29—10—1974	JOHNSON JOHNSON, 501, George Street, New Brunswick, U.S.A.	Antifog surgical face mask with slits.
151	142071	20—03—1975	(1) EDWARD CARL DUWE, 3340, Highland Shores, Oshkosh, Wisconsin 54401, U.S.A., (2) WILLIAM EDWARD DUWE, 1203, Washington Avenue, Oshkosh, Wisconsin, 54901 U.S.A.	Modular mausoleum crypt system.
152	142128	24—06—1974	WESTREX CO. LTD., 152 Coles Green Road, Cricklewood, London NW 2 7HE, England.	Cinematograph machines.
153	142370	16—07—1974	THE GOODYEAR TIRE AND RUBBER CO., U.S.A.	Polyurethane shock absorber for railroad draft gear.
154	142585	25—06—1974	GIRLING LTD., England.	Shoe drum brakes.
155	142717	14—08—1974	THERMO KING CORPN; U.S.A.	Transportable refrigeration units for movable storage containers.

## SUPPLEMENTARY LIST NO. II

S. No.	Patent No.	Date	Name of the Patentee	Title of the Invention
1	2	3	4	5
1	142764	03—07—1974	THE LUCAS ELECTRICAL CO., LTD., Well Street Birmingham, England.	Light source for supplying light to one or more opticle cables.
2	142769	22—01—1975	C.S.I.R., New Delhi, India.	A multi-exposure high pressure X-ray powder defraction Camera.
3	142777	10—09—1975	SIEMENS A.G., Berlin Munich, West Germany.	Sealing bodies for cable bedding.

1	2	3	4	5
4	142779	14—01—1976	Siemens A. G., Berlin and Munich, West Germany.	Apparatus for monitoring the level of liquid in a vessel.
5	142780	23—04—1976	F.L. Smidth and Co., A/S, 77 Vigerskv Alle, D.K. 2500 Copenhagen-Valby, Denmark.	Rotary drum plants.
6	142782	10—07—1974	ERNEST HARRY WEST, LAURA JOYCE WEST, ALLAN ARTHUR WEST, LIONEL BARRY WEST, all of Lot 2943 Bussel Highway, Cowaramup, West Australia and Kenneth Harry West, of 2 Station Road, Margaret River, West Australia.	A base board for supporting a bee hive.
7	142798	24—08—1974	UOAN HO LEE, 85, JEN HO ROAD, Taiwan, Taiwan, Republic of China.	A heading machine for making headed goods from wire.
8	142809	01—10—1974	STEVEN D'CRUZ 28/A, Dent Mission Road, Calcutta-23, West Bengal.	An ice cream freezer.
9	142814	10—06—1975	RUTI MACHINERY WORKS LTD., 8630 Ruti, Zurich, Switzerland.	Elastic shuttle for loom.
10	142817	11—11—1975	WILL CLARKE ENGLAND, 7310, Easterest Drive, Austin, Texas 78752, U.S.A.	A multirotary energy conversion valve.
11	142851	26—06—1975	USS ENGINEERS AND CONSULTANTS INC. U.S.A.	A cured roll rock of continuous casting machine and method of the same.
12	142872	12—01—1976	C.S.I.R., New Delhi-1, India.	An Improved method for making spherical Aluminium Particles.
13	142873	22—12—1975	THE LUCAS ELECTRICAL CO. LTD., England.	Arch forms and a method of moulding same.
14	142875	10—05—1976	GHANASHYAM S. TASGAONKAR, 201, Meghdoot, Nehru Place, N. Delhi-24.	A wick stove.
15	142885	26—12—1974	C.S.I.R., New Delhi-1, India.	Rotary positive displacement pump.
16	142900	24—11—1975	VENMAC INDIA, Skylark, Golf links Road, Kaudiar, Trivandrum-3, Kerala.	An automatic vending machine.
17	142907	05—08—1975	GENERAL ELECTRIC CO., 1 River Road, Schenectady, New York, U.S.A.	Prime speed control system.
18	142913	04—04—1975	PARKINSON COWAN GWB LIMITED, Burton Works, Dudley, West Midlands, England.	A boiler and a grate assembly for such boiler.
19	142914	13—05—1975	ILIE CHIVARI, BERLINER Strasse 1, 4680, Wanne-Eickel, West Germany.	Coupling adopted to connect radially off-set shafts.
20	142927	25—06—1975	CHICAGO PNEUMATIC TOOL CO., 6 East 44th Street, N. Y. N. Y. 10017, U.S.A.	A rotary tool such as a grinding tool with air motor.
21	142978	30—08—1975	A, DATTA 237, Jodhpur Park, Calcutta-700 060, India.	A device for measuring quality of liquid or gas within a cylinder.
22	142983	27—11—1974	DR. C. OTTO AND COMP GMBH, Christstrasse 9, Post-fach 1849/1850, 463, Bochum, West Germany.	Coke oven battery.
23	143001	12—05—1975	GIRLING LTD., King's Road, Tyseley, Birmingham-11, England.	Hydraulic booster for vehicle braking system.
24	143002	25—07—1975	JOSEF KRINGS D-5138, Oberbruch, Mans-Bockler Strasse 23, F.R.G.	Sheeting arrangement for sheeting of a ditch.
25	143010	21—08—1974	DR. C. OTTO AND COMP GMBH, West Germany.	Closure for the charging hole of coke ovens.
26	143015	15—10—1975	METALLGESELLSCHAFT, 6 Frankfurt, am Main, Renterweg 14, F.R.G.	Combustion system for pelletizing apparatus of the travelling grate type.

1	2	3	4	5
27	143017	03—01—1976	F.L. SMIDTH AND CO., A/S, 77 Vigerslev Alle, DK-2500, Copenhagen-Valby, Denmark	Rotary drums.
28	143024	28—08—1975	DR. C. OTTO AND COMP GmbH West Germany.	Probe disposed in a light pressure chamber.
29	143027	29—05—1974	GIRLING LTD., England	Internal shoe drum brake and an adjuster for the shoe of the brakes.
30	143032	25—07—1975	JOSEF KRINGS D-5138, Heighbarg, Huns-Bookler Strasse 23, F.R.G.	Self supporting sheeting for shoring trenches.
31	143042	16—01—1976	SECHERON SOUDURE S.A., Gland (Vard) Switzerland.	Device for cutting eroding welding & depositing metallic and non-metallic materials by means of an electric arc.
32	143045	22—06—1974	GIRLING LTD. England.	A filler cap for a liquid reservoir.
33	143046	29—07—1974	Do. Do.	Vehicle brake actuators.
34	143054	14—08—1974	SCHLUMBERGER OVERSEAS; S.A. Panama, Via Espana-200, Panama.	Apparatus for investigation earth formation
35	143055	30—08—1974	O & K ORENSTEIN AND KOPPLEK A.G. EINSIE-DEL-STRASSE 6, Lubeck, F.R.G.	Double jib crane.
36	143064	11—07—1974	GUSTAV ICKES; Karles Bodes Strasse, la 6462, Geluhousen, Hailag, F.R.G.	A precast load bearing wall element for the erection of pre-fabricated building.
37	143073	17—07—1975	(1) JOHNSON AND JOHNSON (2) PUROLATOR INC., (i) of 501, George Street, New Brunswick, U.S.A. (ii) of 70, New Brunswick Avenue, Rawwa, New Jersey-U.S.A.	A blood filter elements.
38	143076	25—10—1975	GIRLING LIMITED, England	Actuator assemblies for vehicle brakes.
39	143080	03—04—1975	VANDERVELL PRODUCTS LTD., Norden Road, Maidenhead, Berkshire, England.	Bearing.
40	143101	12—01—1976	CHICAGO PNEUMATIC TOOL CO., 6 East 44th Street, New York, N.Y. 10017, U.S.A.	Safety inlet air valve control arrangement for air powered hand held tool.
41	143132	04—02—1976	SOCIETE INDUSTRIELLE DE TRANSPORTS AUTOMOBILES, 7, Rue De Dogelbach, 75017, Paris, France	Improvement in the body of vehicles for receiving and discharging solid materials.
42	143170	15—12—1975	Dr. C. OTTO AND COMP GmbH; West Germany.	Apparatus for discharging hot liquid from a Pressure vessel.
43	143172	01—04—1976	TRUTZSCHLER GmbH and Co., K.G., Duvenstrasse, 82-92, D-4050, Monchenglabebooh 3, F.R.G.	Device for cleaning textile fibre flacks.
44	143180	02—06—1975	NICO PYROTECHNIK JURGEN DIEDERICHIS K.G., 2077, Trittan, Baider, Feuerwerkerei, West Germany.	Impact detonator.
45	143183	12—07—1976	DR. C.O. TO AND COMP GmbH, West Germany.	Battery of coke oven with regenerative heat exchange.
46	143209	23—12—1974	MONSANTO CO., 800 North Lindbergh, Blrd, St., Louis, Missouri 63160, U.S.A.	Manufacture of a fibre reinforced ex- tended and a fibre reinforced hose obtained therefrom.
47	143275	31—03—1975	DR. OTTO AND COMP GmbH, West Germany.	A coke guide machine movable on the coke side of the coke oven batteries.
48	143320	05—02—1977	C.S.I.R., New Delhi, India.	Production of moulds and cores for the manufacture of castings.

1	2	3	4	5
49	143321	12—08—1976	J.J. MARTIN, 248, Leopoldstrasse, 8000 Munich 40, West Germany.	Charging device for large furnaces.
50	143353	15—04—1976	UNITED TECHNOLOGIES CORPN, 1, Financial Plaza, Hartford Connecticut-06101, U.S.A.	Ball bearing.
51	143361	28—02—1975	FRITZ STAHLER AND HANS STAHLER (1) of Joseph Neidhart-strasse 18, D-7341, Bad Ueberkingen, West Germany. (2) of Haldenstrasse 20, D-7334, Sussen, West-Germany.	Method of apparatus for start-spinning a thread on an open end spinning unit of an open and spinning machine.
52	143366	21—06—1975	OTTO JUNKER GmbH; Lammerdorf, 5107, Simmreath, F.R.G.	Procedure of casting specified quantities of molten metal and device for carrying out this procedure.
53	143415	14—04—1975	NRM CORPN; 47, West Exchange Street, Akron, Ohio-44308, U.S.A.	Tire Building machine.
54	143417	12—01—1976	MIDLAND-ROSS CORPN; 55 Public Square, Cleveland, Ohio-44173, U.S.A.	Railway car coupler.
55	143427	12—11—1975	BETHLEHEM STEEL CORPN; Bethlehem, Pennsylvania-18016, U.S.A.	Marine apparatus having telescopic legs.
56	143455	17—07—1974	WESTINGHOUSE ELECTRIC CORPN, U.S.A.	A system for controlling operation of turbine.
57	143461	06—10—1975	THE LUCAS ELECTRICAL CO. LTD., Well Street, Birmingham, England.	Starter motor for an I-C engine.
58	143465	18—04—1975	CHICAGO PNEUMATIC TOOL CO., 6 East, 44th Street, N.Y.N.Y. 10017, U.S.A.	An overspeed safety device for rotary tools.
59	143472	21—10—1975	EGYESULT ISSOLAMPA ES VILLAMOSSAGI RT, H-1340, Budapest, Vaci UT77, Hungary.	Connection by fusion of glass bodies having rational symmetry.
60	143506	21—01—1976	FRITZ TRABER; 8000 Munich, 90, Oberviechtacher, Street, 29, F.R.G.	A mountable and removable arresting device for a foil or a similar thin covering material for making temporary or permanent covering, special partition.
61	143508	28—10—1976	F.L. SMIDTH AND CO. A/S, Denmark.	Tube mills for drying and grinding.
62	143551	31—12—1975	FRITZ STAHLER AND HANS STAHLER, Both of West Germany	Open end spinning Unit containing means for cleaning fibrous material.
63	143585	25—11—1975	THE LUCAS ELECTRICAL CO. LTD., England.	Starter motor pinion assembly.
64	143612	25—11—1976	SRINIVASA CHANDRASEKHARAN, 42nd Street, Nanganallur, Madras-61.	Animal drawn plough.
65	143635	28—02—1975	FRITZ STAHLER AND HANS STAHLER, both of West Germany.	An open-end spinning machine incorporating movable picking up apparatus.
66	143907	30—05—1975	CATERPILLAR TRACTOR Co., U.S.A.	Weldment for bulldozer blades and method and apparatus therefor.

## RENEWAL FEES PAID

99078	99088	99439	99897	100086	100177	100211	100224	121955	121976	121996	122046	122257	122938	123147	123752
100306	100323	100711	100712	101569	102428	104561	105461	123980	123981	126065	126179	126880	126890	126891	126905
105543	105582	105649	105657	105780	105836	105891	105893	127003	127030	127032	127074	127130	127131	127163	127225
105941	105972	106067	106238	106273	106295	106658	107060	127251	127259	127297	127366	127378	127420	128019	128019
110228	110554	110741	110766	111206	111891	111945	112009	130849	131326	131518	131535	131565	131571	131609	131620
112226	112512	113638	113639	114953	115272	115369	115453	131643	131659	131718	131749	131828	131831	131865	131885
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 139177 139329 139370 139374 139455 139761 139859 139868  
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 144369 144403 144404 144466 144482 144577 144604 144653  
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#### CESSATION OF PATENTS

122203 122439 135740 135748 135749 135761 135763 135764  
 135765 135771 135772 135775 135778 135779 135783 135786  
 135788 135790 135793 135797 135801 136493 146413

#### RESTORATION PROCEEDINGS

##### (1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 124847 granted to Peter J. Doanides and subsequently entered in the Register of Patents in the name of Maria Doanides, (widow and heir of the deceased patentee) for an invention relating to "prestressed coated concrete pipe and method of and apparatus for making same". The patent ceased on the 14th January, 1975 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th June, 1976.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponents interest, the facts upon which the bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

##### (2)

Notice is hereby given that an application for restoration of Patent No. 131158 dated the 28th April, 1971 made by Asok Ranjan Das Gupta on the 9th March, 1979 and notified in the Gazette of India, Part III, Section 2 dated the 3rd November, 1979 has been allowed and the said patent restored.

#### RECTIFICATION OF REGISTER OF DESIGNS

##### (SECTION 64)

Application for Rectification of the Registrar of Design in respect of Design No. 143398 filed by Paragon Plastic Industries, notified in the Gazette of India, Part III, Section 2 dated the 9th September 1978 and Opposition entered thereon by Bright Distributors, Swadeshi Market, Sadar Bazar, Delhi on the 25th October, 1978 has been dismissed by virtue of the decision of the Scientific Officer dated the 27th February, 1980.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date

of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 148698. Vijay Steel and Metal Works, 98 Kamla Market, New Delhi, an Indian Proprietorship Concern. "a Air Cooler", July 27, 1979.

Class 1. No. 148820. Anu Enterprise, H-5/4, Krishna Nagar, Delhi-110057, an Indian Partnership Firm. "Slide Contact Printer". September 19, 1979.

Class 1. No. 148840. Pearl Metal Works of 20, Jeenabhai Mulji Rathod Marg & Hussain Patel Marg, Mazgaon, Bombay-400010, Maharashtra, India. "Metallic Container". September 26, 1979.

Class 1. No. 148841. Shantinath Laxmanrao Kalsur, an Indian National of P.W.I. Office, Railway Station, Savarkundala 364515, Gujarat State. "Cycle". October 3, 1979.

Class 1. No. 148856. Mohd. Rafiq Mohd, Shafiq & Co., of 1697-Radgran, Lal Kuan, Delhi-110006, an Indian Partnership Concern. "Lantern burner", October 4, 1979.

Class 1. No. 148925. Auto Alloys R & D Limited of Berristow Lane, Hilcote, Blackwell, Derbyshire, England, a British Company. "an element for an abrasive blasting machine". October 23, 1979.

Class 1. No. 148926. Auto Alloys R & D Limited of Berristow Lane, Hilcote, Blackwell, Derbyshire, England, a British Company. "an element for an abrasive blasting machine". October 23, 1979.

Class 1. No. 149136. Westend Industries, Rehmat Pura, Near Tala Factory, Hapur Road, Meerut-2 (U.P.), India, a partnership firm. "Nail Cutters". January 1, 1980.

Class 1. No. 149147. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Cap for Container-A". January 8, 1980.

Class 3. No. 148290. Minni Trading Corporation, 5-B, Kanchan Villa, Goraswadi, Malad, Bombay-400064, Maharashtra, Indian Partnership Firm. "Cap of container". April 11, 1979.

Class 3. No. 148579. Prime Industries, E/3, Vishal Nagar, S. V. Road, Borivli, Bombay-400092, Maharashtra, an Indian sole proprietary firm. "Battery Tester". June 28, 1979.

Class 3. No. 148628. Prince Plastics, 312, Churchgate Chambers, 5, New Marine Lines, Bombay-400020, Maharashtra State, an Indian Partnership firm. "Lunch Box". July 12, 1979.

Class 3. No. 148662. M/s. Dipty Lal Judge Mal, 19, Rajasthani Udyog Nagar, G. T. Karnal Road, Delhi-110033, an Indian Partnership Concern. "Mini Briefcase". July 19, 1979.

Class 3. No. 148672. Plastisurge Instruments, Panchsheel Cinema Building, Mofussil Plots, Amravati 444601, Maharashtra, an Indian Partnership Firm. "Advance intravenous cannula". July 21, 1979.

Class 3. No. 148673. Plastisurge Instruments, Panchsheel Cinema Building, Mofussil Plots, Amravati 444601, Maharashtra, an Indian Partnership Firm. "Plunger for syringe". July 21, 1979.

Class 3. No. 148674. Plastisurge Instruments, Panchsheel Cinema Building, Mofussil Plots, Amravati 444601, Maharashtra, an Indian Partnership Firm. "Fixed Needle disposable Syringe". July 21, 1979.

Class 3. No. 148678. Ossa Products, 13, Aziz Estate, 286-B, S. G. Barve Marg, Kurla West, Bombay-400070, State of Maharashtra, India, a partnership firm. "A container". July 23, 1979.

- Class 3. No. 148679. Ossa Products, 13, Aziz Estate, 286-B, S. G. Barve Marg, Kurla West, Bombay-400070, State of Maharashtra, India, a partnership firm, "a cap for bottle". July 23, 1979.
- Class 3. No. 148692. Ossa Products, 13, Aziz Estate, 286-B, S. G. Barve Marg, Kurla West, Bombay-400070, State of Maharashtra, India, a partnership firm, "a container". July 25, 1979.
- Class 3. No. 148720. Sham Kumar Kapur, an Indian National, trading as L. V. Sham Cottage Industries, 2292/9, Gate Hakimian, Amritsar-143001, Punjab, "Torch". August 2, 1979.
- Class 3. No. 148722. Shinagar Cosmetics Pvt. Ltd., an Indian Company of 809, Prasad Chambers, Near Roxy Cinema, Bombay-400004, Maharashtra. "Cap". August 3, 1979.
- Class 3. No. 148733. Bata India Limited of 30 Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 9, 1979.
- Class 3. No. 148734. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 9, 1979.
- Class 3. No. 148735. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 9, 1979.
- Class 3. No. 148737. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 9, 1979.
- Class 3. No. 148738. Bata India Limited of 30 Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 9, 1979.
- Class 3. No. 148730. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for footwear". August 9, 1979.
- Class 3. No. 148753. M/s. Calcutta Button Agency of 33, Pementle Street, Calcutta-16, West Bengal, an Indian Partnership Firm. "Mirror". August 20, 1979.
- Class 3. No. 148758. Paragon Plastic Industries, Block-A, Plot No. 78/1, Wazirpur Industrial Area, Delhi-110052, an Indian proprietary concern. "Bowl". August 20, 1979.
- Class 3. No. 148815. Supriya Dey, Prop. Laxminarayan Chemical, 104, Bedon Street, Calcutta-700006, West Bengal, Indian. "Container of toilet powder". September 18, 1979.
- Class 3. No. 148858. Trescho Incorporation of 288/90, Nagdevi Street, 1st Floor Room No. 12-A, Bombay-400003, State of Maharashtra, India, a partnership firm. "a cap for container". October 4, 1979.
- Class 3. No. 148872. Ankur Enterprises, C/o. Tarun Plastic, Raja Bahadur Mansion, 24B, Haman Street, Bombay-400023, Maharashtra, an Indian Proprietary Firm. "Gas Lighter". October 6, 1979.
- Class 3. No. 148892. Supriya Dey, Prop. Laxmi Narayan Chemical, 104, Bedon Street, Calcutta-6, West Bengal, Indian. "container for talc powder". October 10, 1979.
- Class 3. No. 148893. Supriya Dey, Prop. Laxminarayan Chemical, 104, Bedon Street, Calcutta-6, West Bengal, Indian. "Container for show". October 10, 1979.
- Class 3. No. 148896. Elegant Plastics, Commercial Manor, 68/70, Clive Road, Dana Bunder, Bombay-400009, Maharashtra, an Indian Partnership firm. "Mirror". October 12, 1979.
- Class 3. No. 148920. Balbir Singh, Indian National, Bali Chemical Industries, 43/1, Ratu Sarkar Lane, Calcutta-700073, West Bengal, India. "Ink Pot". October 19, 1979.
- Class 3. No. 148963. Rocket Tin and Plastic Industries of 15/2, Daulatganj, Indore-450001, State of Madhya Pradesh, India, an Indian Proprietary concern. "Tea filter". November 5, 1979.
- Class 3. No. 148986. Alliance Plastic Works, Room No. 46, 3rd floor, P-36, Indian Exchange Place, Calcutta-700001, West Bengal, India, "a pickle bowl unit". November 12, 1979.
- Class 3. No. 148987. Allied Instruments Private Limited, of 30 CD, Government Industrial Estate, Kandivli, Bombay-400067, Maharashtra, India. "Divider". November 12, 1979.
- Class 3. No. 148988. Allied Instruments Private Limited, of 30 CD, Government Industrial Estate, Kandivli, Bombay-400067, Maharashtra, India. "Compass". November 12, 1979.
- Class 3. No. 149050. Dhirajlal Narandas Shah, an Indian National of 257-A, Khota-chi-wadi, Sidat Mansion, 4th floor, Vithalbhai Patel Road, Bombay-400004, Maharashtra. "Paper Clip". November 29, 1979.
- Class 3. No. 149200. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "a sole for the footwear". January 18, 1980.
- Class 3. No. 149201. Bata India Limited of 30, Shakespeare Sarani, in the town of Calcutta, West Bengal. "a sole for the footwear". January 18, 1980.
- Class 3. No. 149202. Bata India Limited of 30, Shakespeare Sarani, in the town of Calcutta, West Bengal. "a sole of the footwear". January 18, 1980.
- Class 4. No. 149043. Trescho Incorporation of 288/90, Nagdevi Street, 1st floor, Room No. 12-A, Bombay-400003, State of Maharashtra, India, a partnership firm. "a container". November 27, 1979.
- Class 8. No. 149158. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York, 10016, U.S., a company organized under the laws of the State of New York. "floor coverings". January 9, 1980.
- Class 8. No. 149159. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York 10016, U.S.A., a company organised under the laws of the State of New York. "floor coverings". January 9, 1980.
- Class 8. No. 149160. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York 10016, U.S.A., a company organised under the laws of the State of New York. "floor coverings". January 9, 1980.
- Class 8. No. 149161. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York 10016, U.S.A., a company organised under the laws of the State of New York. "floor coverings". January 9, 1980.
- Class 8. No. 149162. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York 10016, U.S.A., a company organised under the Laws of the State of New York.
- Class 8. No. 149163. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York, N. Y. 10016, U.S.A., a company organised under the Laws of the States of New York, "floor coverings". January 9, 1980.
- Class 8. No. 149164. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York, N.Y. 10016, U.S.A., a company organised under the laws of the State of New York. "floor coverings". January 9, 1980.
- Class 8. No. 149165. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York, N.Y. 10016, U.S.A., a company organised under the laws of the State of New York. "floor coverings". January 9, 1980.
- Class 8. No. 149166. Pande Cameron & Co. of New York, 200, Lexington Avenue, New York 10016, U.S.A., a Company organised under the laws of the State of New York. "floor coverings". January 9, 1980.



EXTENSION OF COPYRIGHT FOR THE SECOND  
PERIOD OF FIVE YEARS

Nos. 141645, 141646, 142105, 142275, 142276, 142481,  
142482, 142483, 142877, 143041, 143094, 143201,  
143291, 143292, 143293, 143294, 144133, 144738,  
145331, 145369, 145512, 145781, 145782, 145783,  
145784, 145785, 145786, 145787, 145788, 135789,  
145790, 145791, 145792, 146797, 146798, 147203,  
147269. Class 1.

Nos. 142113, 142381, 142485, 142581, 142582, 142667,  
142888, 143080, 143981, 143303, 143304, 143328,  
143578, 144445, 147178, 147202, Class 3.

No. 141820. Class 4.  
Nos. 142672, 142787, 142460, 147204 & 147305. Class 10.

EXTENSION OF COPYRIGHT FOR THE THIRD  
PERIOD OF FIVE YEARS

Nos. 135847, 136856, 137230, 137231, 138193, 142105,  
142481, 142484, 142483, 142877, 143041, 143094,  
145331, 145369, 145512, 146797, 146798, 147203,  
147269. Class 1.

Nos. 136823, 136834, 136835, 136836, 136841, 137048,  
137235, 137266, 142485, 142888, 143579, 144445,  
147178 & 147202. Class 3.

Nos. 137283, 136858. Class 4.  
No. 137655. Class 5.

No. 137716. Class 8.  
Nos. 136824, 136837, 136838, 136840, 137236, 147204,  
147305. Class 10.

CANCELLATION OF THE REGISTRATION OF  
DESIGN BY HIGH COURT

Registration of Design No. 146264 has been cancelled by  
order dated the 25th January, 1980 of Hon'ble Mr. Justice  
S. N. Kumar in Suit Civil Original 2/79 of the High Court  
at Delhi.

Name Index of applicants for Patents for the month of March,  
1980 (Nos. 242/Cal/80 to 372/Cal/80, 48/Bom/80 to 91/

Bom/80, 43/Mas/80 to 66/Mas/80 and 145/Del/80 to  
233/Del/80).

Name & Appln. No.

-A-

A. H. Robins. Company, Inc.—345/Cal/80.

Agarwal, M. (Miss).—187/Del/80.

Ahmedabad Manufacturing &

Calico Printnig Company Limited.—56/Bom/80.

Air Products and Chemicals Inc.—315/Cal/80.

Aktiebolaget Iro.—333/Cal/80, 334/Cal/80.

Alcan. Research and

Development Limited.—200/Del/80.

Algas Resources Ltd.—154/Del/80.

Alkali and Chemical Corporation of

India Limited, The.—291/Cal/80.

Anic S.p.A.—245/Cal/80

Anvar-Agence Nationale De

Valorisation De La Recherche.—218/Del/80.

ASEA Aktiebolag.—173/Del/80.

Name & Appln. No.

Ashok Leyland Limited.—53/Mas/80.

Asrani, R. M. (Smt.).—59/Bom/80.

Ayres, J. W.—263/Cal/80.

-B-

B. F. Goodrich Company, The.—328/Cal/80.

B. V. Machinefabriek

M. Brouwer & Co.—342/Cal/80.

Baker, R. W.—263/Cal/80.

Bandag Incorporated.—165/Del/80.

Barnes, A. C.—180/Del/80, 181/Del/80, 182/Del/80, 183/  
Del/80, 184/Del/80.

Barnes, C. E.—180/Del/80, 181/Del/80, 182/Del/80, 183/  
Del/80, 184/Del/80.

Basu, D.—216/Del/80.

Bayer Aktiengesellschaft.—156/Del/80, 171/Del/80, 209/  
Del/80.

Belpit Corporation.—295/Cal/80.

Bernhardsson, K. Y. T.—264/Cal/80.

Bhagwat, R. V.—71/Bom/80.

Bharat Heavy Electricals Ltd.—169/Del/80, 170/Del/80,  
177/Del/80, 191/Del/80, 192/Del/80, 197/Del/80, 198/  
Del/80, 199/Del/80.

Bhatambrekar, S. B.—49/Bom/80.

Bhatia, K. B.—72/Bom/80.

Bhavani Agro Industries.—58/Bom/80.

Borfglaze Limited.—230/Del/80.

-C-

C-I-L INC.—153/Del/80.

C. M. Industries.—205/Del/80.

CPC International Inc.—302/Cal/80.

Calhoun, C. W.—294/Cal/80.

Chancogne, P. G.—246/Cal/80.

Chaturvedi, S. (Miss).—187/Del/80.

Cheyshov, P. V.—313/Cal/80.

Chief Controller Research & Development, Ministry of  
Defence, Govt. of India.—214/Del/80.

Chiyoda Chemical Engineering & Constructions  
Co., Ltd.—320/Cal/80.

Chloride Group Limited.—268/Cal/80, 269/Cal/80 and 270/  
Cal/80.

Clark & Vicario Corporation.—179/Del/80.

Com. Roustion Engineering Inc.—258/Cal/80, 332/Cal/80  
and 338/Cal/80.

Company "A" (Foam) Limited.—360/Cal/80.

Corning Glass Works.—301/Cal/80.

Cosden Technology, Inc.—364/Cal/80.

Council of Scientific & Industrial Research.—188/Del/80,  
189/Del/80, 190/Del/80, 207/Del/80, and 208/Del/80.

Cummins Engine Company, Inc.—256/Cal/80, and 322/  
Cal/80.

-D-

Dr. Beck & Co. AG.—210/Del/80.

Dana Corporation.—254/Cal/80.

Name & Application No.	Name & Applicati
Das, P. S.—75/Bom/80.	International Computers Limited.—146/Del/80.
Davy McKee (Oil & Chemicals) Limited. [formerly Davy International (Oil & Chemicals)] Limited.—329/Cal/80, 330/Cal/80 and 341/Cal/80.	Interox.—225/Del/80
Decca Limited.—172/Del/80.	Jacobs Manufacturing Company, The.—300/Cal/80.
Deshpande, D. R.—32/Bom/80.	Jain, K. C.—193/Del/80, 194/Del/80 and 195/Del/80.
Dobson Park Industries Limited.—27/Cal/80.	Jain, S. K.—355/Cal/80.
Donetsky Nauchno-Issledovatel'sky Institut Chernoi Metallurgii.—368/Cal/80.	Johar, G. S. (Dr.).—187/Del/80.
Dresser Industries, Inc.—156/Del/80.	Jyoti Limited.—87/Bom/80 and 88/Bom/80.
D'Souza, F. M.—61/Bom/80.	-K-
Dunlop India Limited.—356/Cal/80.	Kane, H. V.—82/Bom/80.
-E-	Kelkar, P. G.—77/Bom/80 and 78/Bom/80.
E. I. DU Pont DE Nemours and Company.—260/Cal/80.	Kinariwala, S. N.—226/Del/80 and 227/Del/80.
Eagle Flask Private Limited.—57/Bom/80.	Kinneret Enterprises Limited.—174/Del/80.
Edward L. Bateman Limited.—157/Del/80.	Kintyre Enterprises Limited.—204/Del/80.
Electronics Corp. of India Ltd.—64/Mas/80, 65/Mas/80 & 66/Mas/80.	Kobe Steel, Ltd.—320/Cal/80.
Etscheid India Private Ltd.—312/Cal/80.	Koplastics.—51/Bom/80.
-F-	Koppers Company, Inc.—297/Cal/80.
F. F. Seeley Nominees Pty. Ltd.—336/Cal/80.	Krings, J.—350/Cal/80 and 362/Cal/80.
Fedders Lloyd Corporation Pvt. Ltd.—145/Del/80.	Kulkarni, I. S.—69/Bom/80.
Fernandes, A. R.—56/Mas/80.	Kulkarni, S. K.—69/Bom/80.
-G-	Kupka, D.—314/Cal/80.
Gangal, A. B.—50/Bom/80.	Kuzmin, N. F.—265/Cal/80.
Ghosh, S. K.—257/Cal/80.	-L-
Ghosh Dastidar, A.—272/Cal/80.	Lal, P.—65/Bom/80.
Globe-Union Inc.—357/Cal/80.	Langner, C. F.—206/Del/80.
Gosudarstvenny Nauchno-Issledovatel'sky I Proektny Institut Redkometallicheskoj Promyshlennosti "Giredmet".—266/Cal/80.	Langner, J. B.—206/Del/80.
Gosudarstvenny Nauchno-Issledovatel'sky Institut Tsvetnykh Metallov "Gintsvetmet".—252/Cal/80.	Lavanya Silk Screen.—53/Bom/80.
Goswami, A. P. (Dr.).—228/Del/80.	Leigh Interests Limited.—298/Cal/80.
Graf & Cie, A. G.—275/Cal/80.	Licentia Patent-Verwaltungs-GMBH.—259/Cal/80.
Grimberg, G. S.—246/Cal/80.	Linde Aktiengesellschaft.—366/Cal/80.
Gupta, V. P.—221/Del/80.	Lipton Tea (India) Limited.—354/Cal/80.
-H-	Lodge-Cottrell Limited.—231/Del/80.
Handelsbolaget Light Regulation.—224/Del/80.	Loshkarev, V. P.—265/Cal/80.
Hein, Lehmann A. G.—296/Cal/80.	Lucas Industries Limited.—284/Cal/80, 335/Cal/80, 348/ Cal/80, 43/Mas/80, 44/Mas/80 and 57/Mas/80.
Herberts Gesellschaft Mit Beschränkter Haftung.—367/Cal/80.	-M-
Hicks, J. W. (Jr.).—278/Cal/80.	Madhusudan.—60/Bom/80 and 90/Bom/80.
Hindustan Lever Limited.—76/Bom/80 and 91/Bom/80.	Malhotra, P. S.—159/Del/80.
Hindustan Photo Films Manufacturing Company Limited.—60/Mas/80.	Marathe, Y. P.—80/Bom/80 and 81/Bom/80.
Hoechst Aktiengesellschaft.—255/Cal/80 and 303/Cal/80.	Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft.—283/Cal/80 and 358/Cal/80.
-I-	Maschinenfabrik Reinhausen Gebrüder Scheubeck GmbH & Co. KG.—222/Del/80 and 223/Del/80.
IDL Chemicals Limited.—48/Mas/80.	Microfuels, INC.—212/Del/80.
Ilizarova, L. I.—313/Cal/80.	Mitsubishi Gas Chemical Company, Inc.—273/Cal/80.
Imperial Chemical Industries Limited.—175/Del/80.	Mitsubishi Rayon Co., Ltd.—321/Cal/80.
Indian Petrochemicals Corporation Limited.—48/Bom/80.	Monsanto Company.—344/Cal/80 and 352/Cal/80.
	Muguttrao, K. T.—67/Bom/80 and 68/Bom/80.
	Mukherjee, C. R.—267/Cal/80.
	Muraleedharan Nair, V. P.—233/Del/80.
	-N-
	N. V. Philips.—306/Cal/80.
	Gloeilampenfabrieken.—306/Cal/80 and 307/Cal/80.

<i>Name &amp; Appln. No.</i>
Nataraj, N. N.—54/Mas/80.
Nyfeldt, K. H.—264/Cal/80.
Nauchno-Issledovatel'sky Institut Prirodnogo Gaza.—363/Cal/80.
-Q-
Oil & Natural Gas Commission.—178/Del/80.
Omnium Financier Aquitaine Pour L'Hygiene ET LA Sante (Sanofi).—261/Cal/80.
Orissa Cement Limited.—304/Cal/80 and 305/Cal/80.
Orissa Industries Limited.—317/Cal/80 and 318/Cal/80.
Otis Elevator Company.—148/Del/80.
-P-
Palitex Project-Company GMBH.—365/Cal/80.
Palnitkar, G.P.R.—62/Mas/80.
Pangam, S. R.—70/Bom/80.
Panse, S. V.—74/Bom/80.
Paramasivam, S.—61/Mas/80.
Patel, J. J.—54/Bom/80 and 55/Bom/80.
Patel, R. J.—54/Bom/80 and 55/Bom/80.
Patel, V. A.—62/Bom/80, 63/Bom/80 and 64/Bom/80.
Paul Blanie, J. M. M.—246/Cal/80.
Pavlodarsky Aljuminievy Zavod Imeni 50 Letia SSSR.—266/Cal/80.
Pegler Hatteraley Limited.—161/Del/80.
Pekne, V. Z.—265/Cal/80.
Pen, L. H.—351/Cal/80.
Perkins & Powell Limited.—251/Cal/80.
Pers India Private Limited.—196/Del/80 and 215/Del/80.
Pfizer INC.—185/Del/80.
Pilkington Brothers Limited.—285/Cal/80.
Pillai, S. C.—45/Mas/80.
Piskov, G. M.—313/Cal/80.
Ponomareva, V. S.—313/Cal/80.
Prav Electrosark Private Limited.—83/Bom/80, 84/Bom/80, 85/Bom/80 and 86/Bom/80.
Provesta Corporation.—361/Cal/80.
-R-
Raja, C. A.—58/Mas/80 and 59/Mas/80.
Raju, V. K.—50/Mas/80.
Ramachandar, A. N.—55/Mas/80.
Rank Organisation Limited, The.—168/Del/80.
Rao, Y. S.—162/Del/80, 163/Del/80 and 164/Del/80.
Rayudu, M. V. S.—49/Mas/80.
Reddy, P. J.—50/Mas/80.
Regal Tool & Rubber Co., Inc.—279/Cal/80.
Regents of the University of California, The.—160/Del/80.
Reichhold Limited.—232/Del/80.
ROHM G.m.b.H.—213/Del/80.
Roussel-Uclaf.—244/Cal/80.
Russel Matthews Industries Limited.—323/Cal/80.
-S-
Salmon Mechel Private Limited.—339/Cal/80.
SANAC Societa per Azioni Refrattari Argille

<i>Name</i>	<i>Appln. No.</i>
e Caolini.	—282/Cal/80.
Sandvik Aktiebolag.	—349/Cal/80.
Sanghvi, D. P.	—73/Bom/80.
Sapunov, G. K.	—265/Cal/80.
Satyanarayana, V. S.	—152/Del/80.
Schering Aktiengesellschaft.	—217/Del/80.
Schweiter Engineering Works Limited.	—242/Cal/80 and 243/Cal/80.
Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The.	—203/Del/80.
Sedlacek, C. L.	—202/Del/80.
Sharma, K. S.	—63/Mas/80.
Shell Internationale Research Maatschappij B. V.	—341/Cal/80, 176/Del/80, 219/Del/ 80 and 220/Del/80.
Sibirsky Metallurgichesky Institut Imeni Sergo Ordzhonikidze.	—347/Cal/80.
Siddiqui, A. N.	—186/Del/80.
Siemens Aktiengesellschaft.	—280/Cal/80, 281/Cal/80, 286/Cal/80, 287/Cal/80, 309/Cal/80, 343/Cal/80.
Sig Societe Industrielle Suisse.	—167/Del/80.
Singh, K.	—150/Del/80.
Sir Padampat Research Centre	—149/Del/80.
Snamprogetti S.p.A.	245/Cal/80.
Societa Italiana Telecomunicazioni Siemens S.p.A.	—250/ Cal/80.
Societe DE Paris ET DU Rhone	—262/Cal/80.
Societe Miniere ET Metallurgique DE Penarroya, S.A.	—374/ Cal/80.
Sredneazitsky Nauchno-Issledovatel'sky Institut Prirodnogo Gaza.	—369/Cal/80, 370/Cal/80, 371/Cal/80, 372/Cal/ 80.
Stahler, T.	—325/Cal/80.
Stamcarbon, B. V.	—248/Cal/80, 249/Cal/80, 340/Cal/80.
Stauffer Chemical Company	—316/Cal/80.
Sukhanov, L. A.	—265/Cal/80.
Sumitomo Chemical Company, Limited	—299/Cal/80.

—T—

TRW Inc.	—247/Cal/80.
Takata Kojyo Co., Ltd.	—3262/Cal/80.
Tamrakar, S. P.	—79/Bom/80.
Texaco Development Corporation	—346/Cal/80.
Thakattil, J.	—51/Mas/80 and 52/Mas/80.
Toyo Engineering Corporation	—327/Cal/80.
Troitsky, V. V.	—313/Cal/80.

—U—

U-Tile Pty. Ltd.	—324/Cal/80.
UCB, S. A.	—319/Cal/80.
UOP Inc.	—151/Del/80.
USS Engineers and Consultants, Inc.	—147/Del/80.
Union Carbide Corporation.	—308/Cal/80, 353/Cal/80.

Name & Application No.	
158/Del/80, 211/Del/80.	Venkataraman, K. S.—55/Mas/80.
Union Carbide India Limited—253/Cal/80.	Venkataramanan, G.—46/Mas/80, 47/Mas/80.
Uniroyal, Inc.—229/Del/80.	Verma, A. K.—292/Cal/80, 293/Cal/80, 155/Del/80.
Unisearch Limited—288/Cal/80.	—W—
Universal Luggage Manufacturing Company Private Limited.—89/Bom/80.	Waggonfabrik Uerdingen A. G.—201/Del/80.
Upjohn Company, The.—263/Cal/80.	Westinghouse Electric Corporation—337/Cal/80.
—V—	William Boulton Limited—289/Cal/80.
VEB Schwermaschinenbau-Kombinat Ernst Thalmann.—310/Cal/80, 311/Cal/80.	Wilson, J. T. R.—290/Cal/80.
VTM Handel Wybranietz GMBH & Co.—276/Cal/80, 277/Cal/80.	—Y—
Vasoya, B. H.—66/Bom/66.	Yates, D.—359/Cal/80.

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